



Enhance Test Quality and Coverage with AI-native Test Case Generation in Jama Connect Advisor™

Complex products demand comprehensive testing — but manual test case creation is slow, error-prone, and difficult to scale. When requirements change, coverage gaps emerge, and those gaps can cost your team weeks of rework, compliance setbacks, and costly delays. Relying on standalone test tools or third-party plugins that operate in isolation requires context switching and linking between systems that creates a risk of traceability gaps.

Jama Connect Advisor™'s AI-native Test Case Generation eliminates these bottlenecks directly within your requirements management workflow, so your team spends less time writing tests and more time building quality products.

What Sets It Apart

Unlike standalone test solutions, Jama Connect Advisor's native-AI capabilities are built directly into Jama Connect® — the leading requirements management and traceability platform. Every AI-generated test case is automatically linked to the originating requirement the moment it's created, giving your team complete clarity and accountability, retaining control by auditing the test cases to gain sharper insight into what's missing and by making changes as needed. That's why companies are transforming their test processes and outcomes by moving away from standalone solutions to Jama Connect with add-on Jama Connect Advisor for integrated requirements and test management.

Proven ROI Benefits

Jama Connect Advisor's AI-native Test Case Generation is proven to increase test coverage and sustained test creation velocity, reduce time-to-coverage and silos across teams, and accelerate review and approval cycles. Jama Software®'s Quality and Engineering team leveraged Test Case Generation to achieve the following results: an **11x increase in test coverage** within six months by systematically addressing edge cases and permutations, a **3x boost in sustained test creation velocity** through iterative improvements, a **60% reduction in time-to-coverage** by delivering the same output in less than half the time, reduced silos by linking new test cases to external projects in one step that simplified cross-team collaboration, and faster review and approval cycles with instant auto-generated tests.

KEY BENEFITS:

Save Significant Time

Replace hours of manually generating a comprehensive set of test cases with a single click in seconds to reclaim that time for higher-value work and improve time-to-market.

Improve Test Quality and Coverage

Avoid human knowledge limits and blind spots with AI-generated test cases that systematically account for edge cases, permutations, and fringe scenarios for broader, more rigorous coverage without proportionally more effort.

Maintain Unbreakable Traceability

Automatic linking of every AI-generated test case to its originating requirement means that when requirements change, coverage gaps are immediately visible to act quickly and avoid late cycle issues.

Eliminate Standalone Tools

Unlike third-party test tools or plugins that can create potentially fragile traceability chains and administrative overhead, Jama Connect Advisor works where your requirements live.

Embed AI Directly into Development

Rather than adopting a separate AI tool on which your team needs to be trained, AI-native capabilities operate in the workflow your team already uses, lowering the barrier to adoption and accelerating time-to-value.

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. Each test case is automatically linked to the original requirement within Jama Connect for complete clarity, accountability, and traceability.

For example, consider the functional safety requirements of an automotive battery management system. To verify the integrity of calibration data transmitted between systems, select "System" as your test context, "Functional" as the test type, and "Automotive (ISO 26262 compliance)" as your test 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. From functional tests to performance benchmarks, AI 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 | Source Requirement

10 available [Regenerate test cases](#)

- ☒ **Verify that calibration data is not corrupted during transmission**
This test case verifies that the Battery Manager calibration data remains intact and uncorrupted when transmitted between systems.
- ☐ **Verify that calibration data is validated upon reception**
This test case ensures that the system checks the integrity of the Battery Manager calibration data upon receiving it.
- ☐ **Verify that system alerts on calibration data integrity failure**
This test case confirms that the system generates an alert if the integrity of the Battery Manager calibration data is compromised.
- ☐ **Verify that calibration data is stored securely**
This test case checks that the Battery Manager calibration data is stored in a secure manner to prevent unauthorized access or corruption.
- ☐ **Verify that system performs periodic checks on calibration data integrity**
This test case ensures that the system regularly verifies the integrity of the Battery Manager calibration data to detect any issues early.

Editor

NAME*
Verify that calibration data is not corrupted during transmission
190 characters remaining

DESCRIPTION
This test case verifies that the Battery Manager calibration data remains intact and uncorrupted when transmitted between systems.

LOCATION*
[Select location](#)

STEPS

☐	#	Action	Expected Result
☐	1	Initialize the test environment and prepare both the source and destination systems for data transmission	The test environment is set up, and both systems are ready for calibration data transmission.
☐	2	Generate a set of calibration data on the source system	The source system generates a set of calibration data successfully.
☐	3	Transmit the calibration data from the source system to the destination system	The calibration data is successfully transmitted from the source system to the destination system.
☐	4	Retrieve the calibration data on the destination system	The destination system retrieves the calibration data successfully.

[Create selected test case](#) [Cancel](#)

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

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. If you are not yet a customer, sign up for your free trial at: www.jamasoftware.com/trial. For additional AI initiatives under consideration, go to <https://labs.jamasoftware.com>



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