

API TESTING



Industry experts recommend that organizations place increased emphasis on testing at the API/message layer. They report that API testing is much more suitable for test automation and continuous testing than UI testing—particularly with Agile and DevOps—because:

- API tests are less brittle and easier to maintain
- API tests can be implemented and executed earlier in each sprint
- API tests can often verify detailed “under-the-hood” functionality that lies beyond the scope of UI tests
- API tests are much faster to execute and are thus more suitable for checking whether each new build impacts the existing user experience

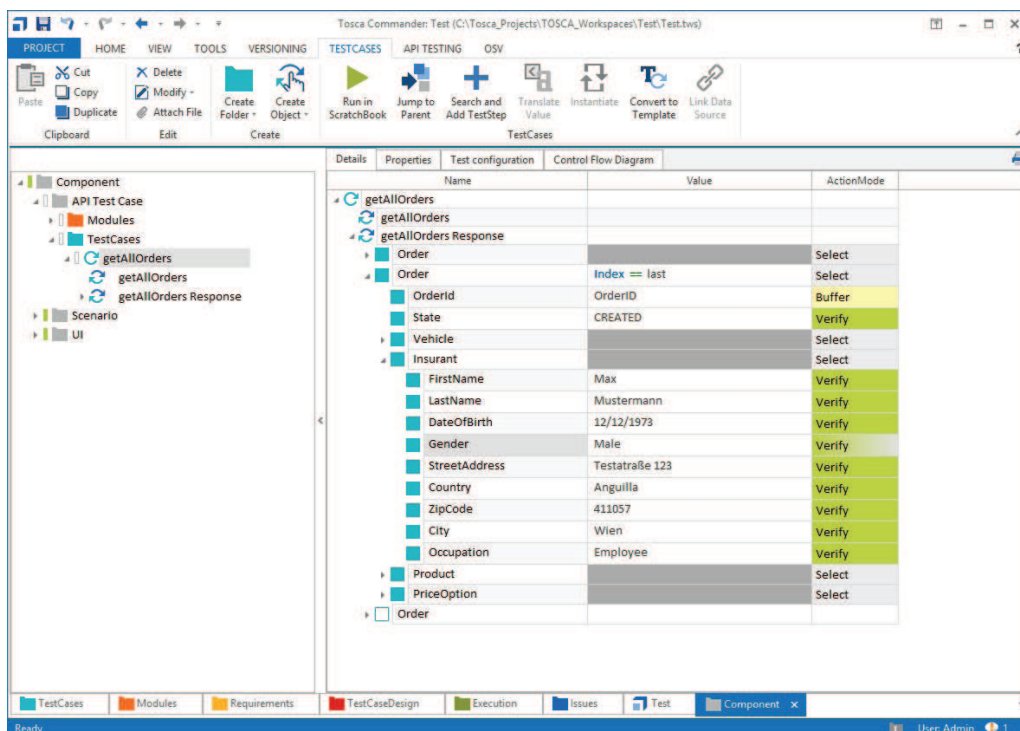
Tricentis simplifies the transition from UI testing to API testing—allowing any tester to rapidly create API tests from an intuitive business-readable interface and then integrate them into end-to-end test scenarios that might cross web UIs, mobile, SAP, and more.

Easily-Maintainable API Tests for End-to-End Testing

Tricentis helps you rapidly define and update API tests in a business-readable interface, then reuse them as “building blocks” across end-to-end tests. SOAP and RESTful (e.g., Swagger) APIs are fully supported.

Since these API tests use the same model-based test automation technology behind all Tricentis automated testing, they are simple to update. For example, if an element or attribute name changes, just update it once, and that change is automatically propagated to all associated tests.

Additionally, you can use Tricentis technologies to enhance and optimize your API tests. Risk-based testing helps you focus on the tests that matter most, and test data management lets you rapidly populate these tests with the exact data you need to achieve maximum risk coverage.



Facilitate Developer/ QA Collaboration on API Testing

Tricentis helps your team collaborate on API testing—from “unit-level” testing during API development, to end-to-end testing that exercises the API in the context of realistic user transactions, to cloud-based testing that validates the API’s continued performance.

As developers use the lightweight API Scan app to perform quick sanity tests on the APIs they’re developing, key test details (e.g., authentication and appropriate request parameters) are saved for reuse across the team. Developers gain a fast and intuitive way to check their work—and at the same time jumpstart QA testing efforts.

The captured developer tests can be automatically converted to Tosca API tests for functional testing and load testing. In Tricentis Tosca, QA can inject additional test data to increase coverage as well as embed these tests within realistic end-to-end test scenarios.

Migrate SoapUI Tests to an Enterprise Testing Platform

If your team has already built SoapUI tests, you can automatically import them into Tricentis Tosca. The resulting Tricentis Tosca test cases are model-based, business-readable, and data-driven—facilitating test case maintenance and extension.

Once converted from SoapUI, those API test cases can be reused across multi-channel end-to-end tests as well as complemented with exploratory testing. Moreover, you can take advantage of additional Tricentis capabilities such as, synthetic test data generation, risk coverage optimization, service virtualization, cloud-based load testing, test management, and analytics as you extend and optimize those tests.

Benefits

- Increase test stability
- “Shit left” testing
- Integrate API testing into E2E tests
- Rapidly create a single test definition for both functional and load testing

Featured Customers



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About Tricentis

Tricentis provides a Continuous Testing platform that accelerates testing to keep pace with Agile and DevOps. With the industry’s most innovative functional testing technologies, Tricentis breaks through the barriers experienced with conventional software testing tools - achieving test automation rates of over 90%.

Our 400+ customers include global names from the Top 500 brands such as A&E, Allianz, Deutsche Bank, HBO, JetBlue, Orange, Swiss Re, Telstra, Toyota, UBS, Vantiv, Virgin Airlines, and Zurich Insurance. Tricentis has offices in Austria, United States, Germany, Switzerland, UK, Netherlands, Poland, and Australia.

