

# Parasoft SOAtest



THE INDUSTRY-LEADING API TESTING SOLUTION

## TRY IT

Get a free trial of Parasoft SOAtest and start testing.

<https://software.parasoft.com/soatest>

## API TESTING FOR ENTERPRISE AND EMBEDDED

- Automate complex scenarios across multiple endpoints (services, databases, mobile, web UI, sensors, ESBs, mainframes, etc.) from a single intuitive user interface
- Automatically generate tests that are robust, reusable, and easily shareable
- Keep test assets in sync with evolving systems via automation
- Visualize and validate how messages and events flow through distributed architectures as tests execute
- Seamlessly integrate with load testing and service virtualization

## Mitigate the risk of accelerated delivery with efficient end-to-end test automation.

Parasoft SOAtest helps cut through the complexity of testing omni/multi-channel applications. It extends API testing with automation and mitigates the cost of re-work by proactively adjusting your library of tests as services change.

SOAtest efficiently transforms your existing test artifacts into security and performance tests, to increase re-usability and reduce redundancy, all while building a foundation of automated tests that can be executed as part of Continuous Integration and DevOps pipelines.

Use SOAtest to reduce test maintainability problems by proactively adjusting your tests as APIs change, and integrate SOAtest into your Continuous Delivery pipeline to ensure that your applications have an acceptable level of risk. Security and load/performance testing are often left to the end of the development cycle, but present the greatest risk to delayed releases. Integrate this testing earlier into your SDLC to reduce corporate risks associated with performance outages and security breaches.

Reduce the cost of developing high-quality software, without sacrificing time-to-market:

### CONTINUOUS TESTING

Automate the execution of API, performance, and security tests as part of your continuous delivery pipeline, leveraging CI infrastructure such as Jenkins, Bamboo, TeamCity, and VSTS, to provide a faster feedback loop for test development and management.

### AGILE

Accelerate the feedback process required in Agile methodology, by integrating test results with your requirements and issue management systems, such as Jira, to continuously validate your level of risk.

### TEST QUALITY

Increase test productivity by simplifying initial test creation. Rapidly craft rich end-to-end test scenarios, regardless of the technology, and string test scenarios together with data to constantly validate your application.

### MODERN TEST ENVIRONMENTS

Execute your tests and view results within the context of the test environment, while controlling the behavior of constrained dependencies to ensure predictability, leveraging service virtualization.

“ With Parasoft SOAtest, we are able to kill two birds with one stone. You test the feature. When you are satisfied with result, you immediately generate a regression suite and you have your automation ready. You don't have to do the testing twice anymore. It's all done in one shot. That's a huge advantage...Parasoft helps us increase test coverage and increase the granularity of our testing. That helps us ensure our clients that they are always receiving a very high quality product. ”





## END-TO-END TESTING

From a single intuitive interface, Parasoft SOAtest automates end-to-end test scenarios across multiple layers and a variety of endpoints (i.e. mobile, REST APIs, SOAP services, databases, Web UIs, ESBs, or mainframes). SOAtest reduces the time it takes to create and execute data-driven test scenarios by providing a visual test-creation mechanism to take care of common testing challenges like complex assertions, looping, data extraction, or data generation. Use SOAtest to reduce test maintainability problems by proactively adjusting your tests as APIs change, and integrate SOAtest into your Continuous Delivery pipeline to ensure that your applications have an acceptable level of risk.



## LOAD AND PERFORMANCE TESTING

Parasoft LoadTest takes the tests from SOAtest and runs them under load to validate your application's performance under stress. It verifies that your services meet specific quality-of-service metrics and shows you where performance bottlenecks exist. Load and performance testing can be fully automated and run continuously, enabling constant validation and providing immediate feedback on the impact of change against SLAs.



## SECURITY/PENETRATION TESTING

Parasoft SOAtest helps teams prevent security vulnerabilities through API penetration testing and execution of complex authentication, encryption, and access control test scenarios. By leveraging already-existing functional tests for security scenarios, teams can approach security testing earlier, and address critical security defects before they are buried deep in the release.

## GET REAL RESULTS

Parasoft's customers use Parasoft SOAtest to benefit their businesses:



To ensure the reliability of iPhone billing systems



To ensure the accuracy and performance of corporate tax e-filing systems



To validate rule-based specimen management systems



To ensure the reliability of the world's largest travel network



To audit business processes



To enforce governance policies



To create and manage emulated service assets



To validate complex business scenarios



To ensure expected quality of service

## Bloomberg

To validate performance expectations



To safeguard personal health record management services

## SIEMENS

To ensure secure, reliable account management and email services



To ensure that cargo shipments are planned and fulfilled

## TECHNOLOGIES AND PROTOCOLS

Parasoft SOAtest supports an industry-leading 120+ protocols and message types. For example:

### RESTful Web Services

JSON  
RAML  
Swagger / Open API  
WADL

### SOA / Web services

XML  
WSDL  
XML Schema  
SOAP  
PoX (Plain XML)  
GZIP  
WS-\* Standards

### Microservices

Kafka  
RabbitMQ  
MQTT  
AMQP  
Protobuf  
WebSockets

### Protocol

HTTP/HTTPS  
HTTP2  
JMS  
MQ  
TCP/IP  
SMTP  
Tibco  
.NET WCF  
FTP/SFTP  
RMI  
SAP

### SQL/noSQL

JDBC (Other)  
ODBC  
ADO  
Stored Procedures

### Message Formats

Fixed Length  
FIX  
Swift  
ISO 8583  
EDI

### Appium

### Selenium

For a full list of supported technologies, go to [parasoft.com](http://parasoft.com)