PARASOFT

Automated Software Testing

Parasoft Continuous Testing Platform

A COLLABORATIVE WORKSPACE FOR API TESTING, SERVICE VIRTUALIZATION, AND TEST DATA MANAGEMENT

TRY IT

https://software.parasoft.com/
continuous-testing-platform

A PLATFORM FOR CONTINUOUS TESTING

- Test environment setup, visualization, validation, and provisioning

- Service virtualization (virtual asset creation, configuration, and deployment)

- API testing (test creation, management, and execution)

- Test data management (capture, mask, and generate)

Accelerate testing and improve quality with continuous testing.

Today's agile, "continuous everything," security, and DevOps initiatives require the ability to test software efficiently and effectively to assess the risks associated with market delivery.

Parasoft's continuous testing solution helps organizations rapidly and precisely validate that their applications satisfy their market and business requirements around functionality, reliability, performance, and security. Even novice team members can configure and provision a complete test environment, and immediately execute tests against the appropriate test environment configurations.

Create test cases, virtual services, and test data right from your browser. These test artifacts can then be combined into powerful environment templates, which can be deployed on-demand using the Environment Manager. These activities all happen in concert with your existing CI infrastructure, allowing you to seamlessly integrate continuous testing into your build process.

The Parasoft Continuous Testing Platform combines the following technologies into one collaborative interface:

SERVICE VIRTUALIZATION

Through Parasoft Virtualize, get on-demand access to complete, realistic test environments by simulating constrained dependencies.

API, PERFORMANCE, AND LOAD TESTING

Parasoft SOAtest helps testers ensure the security, reliability, and performance of transactions across modern business systems, automating end-to-end test scenarios across multiple endpoints (APIs/services, databases, mobile, web UIs, ESBs, mainframes).

TEST ENVIRONMENT MANAGEMENT

On-demand provisioning of test environments (live and virtual services) to satisfy your testing requirements, rapidly evaluate a release candidate, and allow automated tests to run continuously.

TEST DATA MANAGEMENT

Capture, manage, share, and repurpose realistic test data, reducing data friction and enabling better testing.

> "...the greatest tool I have ever used for testing and debugging code. We have used it for validating, testing, and debugging for more than 200 Java applications in our Test Software Department... I highly recommend this tool for validating, testing, and debugging software on any platform."

Western Digital

CONTINUOUS TESTING WITH PARASOFT

RE-USE BUILDING BLOCKS
API tests are built by developers, then extended by QA into complex end-to-end functional test scenarios that can be leveraged for load/performance testing and security testing.

REUSE DATA ACROSS TESTS AND TOOLS
Test data can be captured into a centralized portal, visually represented as a model, allowing users to access, generate, mask, and repurpose it for their test cases and virtual services. This reduces the overall time spent waiting for test data.

ELIMINATE TESTING ROADBLOCKS
Unavailable or difficult-to-configure dependent systems can be simulated. Service virtualization assets can be constructed from the same test artifacts and used for test construction.

REPRODUCE DEFECTS FASTER
If a test fails, the correlated test environment can be re-created with the click of a button to reproduce the failing test case within the exact same environment configuration, accelerating the process of defect remediation and eliminating the time-consuming, frustrating plight of development being unable to reproduce problems reported by QA.

UNDERSTAND THE IMPACT OF CHANGE
Parasoft can proactively scan your virtual services and test cases and, when a service changes, notify you and provide a change template to help you update your test artifacts. Additionally, you can run Change Impact Analysis to understand how a potential change will affect your test artifact library. Finally, you can run this analysis in the context of your environment so you can address environmental changes early.

Parasoft Continuous
Testing Platform

Artifact Repository
Library of test cases, virtual services, test data, and technology extensions.

Environment Management
Unite your test cases with test cases and virtual services to create an environment that can be executed continuously.

Test Execution
Execute preconfigured jobs automatically as a part of your CI build process.

PARASOFT CONTINUOUS TESTING PLATFORM

CAPABILITIES
Service Virtualization
API, Web, and Load Testing
Test Environment Management
Test Data Management

PROTOCOLS
HTTP, HTTPS, HTTP/2
JMS, JDBC
MQ, MQTT
AMQP
RabbitMQ
ISO 8583
FIX
SAP (RFC, IDOC)
FTP, TCP/IP
.NET WCF
+ more

MESSAGE FORMATS
REST (Swagger, RAML)
WebServices (WSDL)
SOAP
XML
JSON
Literal
FIX
SWIFT
SAP (RFC, IDOC)
Protobuf
+ more

TOOLS
Responders
Advanced Responders
Databanks
Provisioning Actions
Message Clients
XML Tools
Validation Tools
DB Tool
Write File
+ more

PERFORMANCE MODELING
Performance profiles for advanced performance modeling + High through-put support

EXTENSION FRAMEWORK
Java
JavaScript
Jython
Groovy

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