When Software Is Critical Deliver With Confidence

Parasoft Continuous Quality Testing Platform

Companies of all types and sizes are actively looking for solutions to save time, increase quality, improve security, and ultimately allow them to deliver with confidence. The most notable difficulties are:

- Ensuring compliance requirements are met.
- Identifying the right areas to test.
- Availability of flexible and reliable test environments and test data.
- Making automation and its benefits a reality.



Leverage Test Automation

How do you achieve your software quality targets? Manual testing is often used extensively for software validation. While it does have its place, it shouldn't be the primary method your team uses because it doesn't fully cover the application's internal operations, it's inherently time-consuming, and may only find issues late in the development cycle.

By automating your unit, API, and UI testing activities, you can quickly create new test scenarios, easily maintain those tests, and reuse the functional tests for nonfunctional testing. Test automation enables the AI-powered creation of test scenarios and reduces the effort and cost to increase the overall test coverage of your applications.

Make Testing Continuous

Implement continuous testing by integrating your test strategy into your continuous integration and delivery processes. Your team will be able to find and fix defects earlier in the development cycle, reducing the time between discovery and remediation.

Continuous testing is a key part of enabling true end-to-end testing for your application software. With the automated testing strategy integrated into your CI/CD workflow, your application testing is more complete, enabling shorter test cycles and high-quality deliveries.

Quality-First Approach

You can't test quality into an application at the end of the software development life cycle (SDLC). You need to ensure that your software development process and practices put a priority on quality-driven development and integrate a comprehensive testing strategy to verify that the application's functionality meets the requirements.

- Reduce the time and cost of testing to minimize business risks.
- Identify, mitigate, and resolve defects earlier in the pipeline.
- Ensure safety, security, and reliability targets are achieved.
- Increase confidence in test coverage to accelerate the delivery of high-quality software.

Partner With Parasoft to Achieve Your Goals

Take the next step toward reaching your business and technical goals. Organizations that deliver secure, reliable, and scalable software ahead of their competitors will gain the biggest share of the market.

Talk to our experts to learn how Parasoft enables you to deliver with confidence.

Integrate Test Automation Throughout the SDLC

Reduce the complexity and technical burden associated with testing. The Parasoft Continuous Quality Testing Platform integrates test automation support for static code analysis; unit, API, and UI testing; security testing; load and performance testing; and reporting with intelligent analytics. Start with any testing capability and integrate others into your workflow as your testing needs scale and your DevOps team matures.

Capabilities

Code Analysis

Verify code quality with a comprehensive set of static code analysis techniques—pattern-based analysis, dataflow analysis, abstract interpretation, metrics, and more—using over 2500 different rules for coding and process standards. Generate actionable workflows through machine learning to reduce noise, prioritize findings, and fix defects in the code.

Unit Testing & Code Coverage

Achieve high code coverage and accelerate the delivery of secure and reliable software. Integrating into your existing toolchain, the Parasoft solution includes unit test creation capabilities for C, C++, and Java. Parasoft provides everything you need to accelerate the delivery of high quality and secure mission-critical software.

API Test Automation

Simplify functional API testing using AI and ML to create and maintain API tests within your CI/CD pipeline. The API test generator monitors interactions with your application's UI and creates reusable codeless API test scenarios. Parasoft identifies what tests to execute for validating code changes and adjusts tests as APIs change.

Service Virtualization

When access to data and services is limited, eliminate bottlenecks with virtual services and test data sets that behave like production systems, at a lower cost than actual infrastructure. Manage test environments and dependencies by orchestrating test execution, virtual services, and test data within the CI/CD pipeline.

Functional Test Automation

Easily create and maintain more robust web UI tests to deliver a positive user experience. With AI-enhanced self-healing and recommendations, Parasoft's web UI testing solution ensures early, accurate detection of potential failures and page loading issues so that your web-based interactions meet high expectations.

Performance Test Automation

Application performance is crucial to the user experience. Ensure your application can handle the load with stress, endurance, and spike testing, among others. Create rich multi-profile test scenarios to scale your performance testing solution. Accelerate load and performance testing by reusing API tests for nonfunctional scenarios.

Supporting Services

Analytics

Make informed decisions for future sprints. Use a centralized dashboard of application quality, security, risks, and compliance with detailed reports and advanced analytics to build a strategy across testing practices.

Integration

Enhance your CI/CD workflow by integrating the Parasoft automated testing solution with your existing toolset, including build systems, test frameworks, IDEs, requirements management, and more.

Intelligence

Parasoft incorporates artificial intelligence and machine learning into the testing capabilities so you can develop and test code more efficiently and effectively for delivering high-quality software at speed.

Policy

Parasoft checks code for compliance with a variety of functional safety, security, and coding standards. It also automatically generates the documentation needed to demonstrate compliance.

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