

HOW TRICENTIS QTEST AND NEOLOAD CAN PROVIDE A UNIFIED VIEW OF APPLICATION QUALITY

These days, more QA/Testing and Developer teams are opening up their testing process to stakeholders across the organization by tracking functional requirements, manual and automated test cases, testing coverage, and other vital elements and metrics of the testing process. Having all this data available in one solution allows all business stakeholders, including product owners to have a single, unified vision of their quality systems.

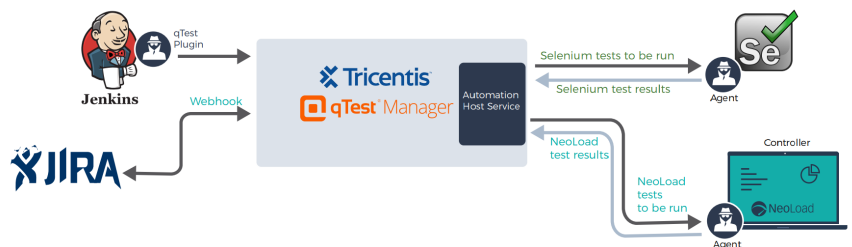
Performance Management is Different

Performance management always stands apart and get managed differently than other business-critical processes - including the way the results of performance testing are shared. Sharing performance reports have traditionally been done by exchanging documents, emails, presentations, or by editing an Excel spreadsheet. Today's best practices for performance testing include exposing all performance data to developers with the help of CI/CD plugins. Organizations that have adopted Agile workflows and processes are finding that moving towards adoption of a DevOps approach is becoming a mandatory step if they want to get the most benefit for stakeholders across the business - Developers, QA managers, and products owners - from their performance testing insight.

Value for Business Stakeholders

Non-technical managers and business executives, who are not performance testing practitioners, do not need to understand all the in-depth technical details of performance testing to make informed decisions or efficiently manage performance testing projects. But, they still need some level of deep insight into the performance of applications to make directional, investment and resource decisions. This need makes it a business imperative to expose performance testing results and KPI to managers and other non-testing stakeholders across the business, directly from Test Management solutions such as qTest.

The primary purpose of the integration between NeoLoad and qTest is to give visibility to managers and other business stakeholders by exposing the test results gathered by Jenkins, and presenting the test results for tests triggered manually by performance engineers.



WHY NEOLOAD?

The NeoLoad performance testing platform is designed to help today's performance engineers and developers save time. With advanced capabilities such as automatic script maintenance, Selenium conversion, and one-click dashboard accessibility (where shared metrics are displayed in Dynatrace), organizations are now able to fully automate, provide visibility, and easily share with key stakeholders across Dev, QA and Ops.

WHY TRICENTIS QTEST?

The Tricentis qTest platform offers seamless integration with leading development, testing and delivery tools to streamline workflows across the software development lifecycle, including Atlassian's JIRA, VersionOne, Neotys, Selenium, Jenkins and many more. QA Symphony supports leading enterprises including Salesforce, Barclays, Cisco, Samsung, Verizon, and Office Depot.

WHY IS A COMBINED SOLUTION IMPORTANT?

Comprehensive Performance Testing Platform - Agile Test Management combined with the NeoLoad performance testing platform

Enterprise Testing Platform for Jira - Use Jira with NeoLoad Scripts stored in qTest Manager for full traceability

Reporting On Your Testing Ecosystem - qTest scheduling capabilities + NeoLoad execution + Insights reporting

Accelerated Performance Testing Cycles - Use Tricentis Explorer, Selenium, and NeoLoad to speed up testing cycles

The integration between qTest and Neotys will help teams to:

- Provide visibility of the quality of the application to QA engineers
- Build NeoLoad User Paths automatically based on Manual test cases stored in qTest
- Launch NeoLoad tests directly from qTest

qTest Explorer

In addition to serving as Tricentis' test case management product, qTest provides a solution called Explorer, which is a tool included as part of the qTest Platform. Explorer is a tool that will capture all of the screenshots and clicks of web- and desktop-based applications. Explorer allows users to conduct thoroughly documented exploratory testing. Annotations saved Explorer sessions are annotated so that issues submitted into JIRA for developers can easily be reproduced and fixed. For web applications, a non-technical user would be able to use the tool, and then output a Selenium script in Java, Python, or C#.

NeoLoad Selenium Wrapper

Neotys supplies a NeoLoad Selenium wrapper that can convert on-the-fly Selenium scripts into NeoLoad User Paths. The wrapper enables qTest users to automatically transform their exploratory test sessions into NeoLoad without any interaction with NeoLoad, and without impacting existing functional tests. Using NeoLoad's Selenium wrapper, you can create or maintain existing User Paths in your automated tests processes, as well as collect end-user experience data for the metrics calculated on the client (browser or mobile devices) to send to NeoLoad.

qTest is also able to retrieve KPIs on NeoLoad tests launched by Jenkins, as well as run NeoLoad testing directly from qTest using the qTest shell agent. The qTest platform serves as the centralized location for all of your testing results, including performance, manual, and automated based tests. With tight integration to various ALMs, such as JIRA, Rally, and VersionOne, organizations will see full end-to-end traceability throughout the SDLC.

DETAILS OF THE TECHNICAL INTEGRATION

There are two different ways in which NeoLoad test results are can be handled and kept centrally within the qTest platform. Centralizing the test data allows the QA team to document test failures and issues in JIRA, associate the tests with User stories, and to report across all different types of testing the team is doing.

The first option would be through the use of free plugins for NeoLoad and qTest in the Jenkins Marketplace. With this approach, Jenkins would still serve as the conductor and scheduler of your NeoLoad tests. You'll be able to see the results of these tests, and others, back in the qTest platform.

The second option is to utilize Tricentis' shell agent to trigger NeoLoad tests directly from the qTest User Interface. The shell agent is a highly flexible solution that offers deeper integration with NeoLoad.

About Tricentis

Tricentis is the global leader in continuous testing and automation, widely credited for reinventing software testing for DevOps and agile environments. The Tricentis AI-based, automation platform enables enterprises to accelerate their digital transformation by dramatically increasing software release speed, reducing costs, and improving software quality. Tricentis has been widely recognized as the leader by all major industry analysts, including being named a leader in Gartner's Magic Quadrant five years in a row. Tricentis has more than 1,800 customers, including the largest brands in the world, such as Accenture, Coca-Cola, Nationwide Insurance, Allianz, Telstra, Dolby, RBS, and Zappos.

About Neotys

Neotys is a leading innovator in load testing & performance testing for Web and Mobile applications. It has 15 years of development investment into NeoLoad – the performance testing platform designed to accelerate Agile and DevOps processes. Built by engineers who recognized that in order to achieve their own Agile adoption objective, they needed to create a product that could facilitate superior load and performance testing continuously. The end result – up to 10x faster test creation and maintenance with NeoLoad.

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