

## HOW KOBITON AND NEOLOAD CAN PROVIDE LOAD TESTING ON REAL MOBILE DEVICES

User experience has become more than essential, particularly when it comes to performance. Mobile users expect a better level of performance from mobile apps as they do from web apps. Furthermore, the mobile user experience is highly impacted by device characteristics and network quality, making it difficult for performance testers to accurately replicate bugs in production conditions with conventional testing tools and approaches.

### WHY NEOLOAD?

As performance has a big impact on business success and is one of the main components of User Experience, validating the behavior of a public facing mobile/web application has become a must before any deployment in production.

In the real world, many users will access applications simultaneously, each using different devices under various network conditions. In order to visualize and understand an application's complete mobile user experience, testers must be able to replicate a realistic load on the back end of an application while measuring the performance of the application's front end via real mobile devices.

NeoLoad has all the features required to generate realistic load against web and mobile application with the ability to:

- Record mobile or traditional web traffic
- Simulate the network conditions of the end users during the test (WAN emulation included in the solution without the extra cost)
- Monitor the behavior of the architecture
- Generate the load on-premise or from the cloud
- Integrate with mobile device testing solutions such as Kobiton to measure user experience
- With the help of Neotys' Selenium Wrapper the tester will be able to take advantage of existing Selenium/Appium scripts to report the real user experience in a NeoLoad Graph.

### WHY KOBITON?

Kobiton provides access to real devices (not simulators or emulators) for load testing—letting testers know how devices will perform under stress. Use either your own local devices or access hundreds of real devices—including the latest iOS and Android devices—in Kobiton's Public Cloud. And with Kobiton's Hybrid Cloud, one single platform gives your teams access— anytime, anywhere—to both local and cloud devices for testing. Kobiton's mobile app testing platform already provides lightning-fast performance and responsiveness. Now, it's even more powerful with the addition of Neotys's industry-leading load testing tool.

### WHY IS AN INTEGRATED KOBITON/NEOLOAD SOLUTION IMPORTANT?

When it comes to simulating a high volume of simultaneous users hitting your application, it's difficult to use real devices or emulators. Doing so would require acquiring hundreds or thousands of real devices or machines running emulators. Therefore NeoLoad and Kobiton to deliver realistic tests by:

- Generating 95 % of the load from NeoLoad by sending traffic on the protocol level
- Run 5% of the load over real devices hosted by Kobiton to report the real UX

## DETAILS OF THE TECHNICAL INTEGRATION

By combining Kobiton’s easy ability to test mobile apps on real devices with NeoLoad’s fast, industry-leading load test designer and analyzer, testers can now design load tests within Kobiton 10 times quicker and maintain those tests 20 times faster than typical load testing solutions. NeoLoad allows you to load test continuously, in parallel, and in real time.

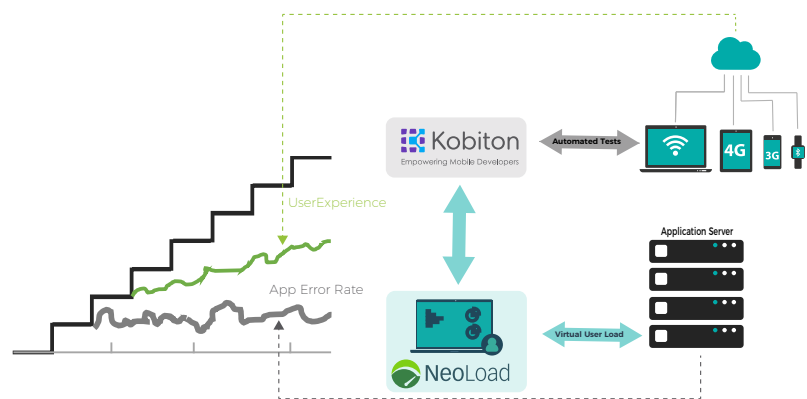
For load testing mobile apps, Kobiton now lets NeoLoad do the heavy lifting. If needed, mobile app testers can use NeoLoad to test with millions of virtual users across different mobile signal strengths. With the help of NeoLoad’s Cloud platform, the tester will be able to generate load from 57 on-demand locations from 7 different cloud providers into play.

NeoLoad works out of the box with Kobiton, so no complicated setup, installation, or configuration is required. That’s because Kobiton runs on the Appium framework which—through the NeoLoad’s Selenium WebDriver API—seamlessly connects with NeoLoad. Developers can use any programming language to write load testing automation scripts on iOS, Android, Mac, and Windows devices.

Plus, NeoLoad is easy for not only developers but also non-specialists to learn and use—helped by automation (such as pre-configured load generators or set thresholds based on industry best practices), wizards, and asset reuse (such as reusing existing functional tests). NeoLoad’s Appium scripts are 100% compatible with Kobiton’s scripting capabilities, and NeoLoad allows you to reduce or eliminate the need to update scripts. Developers familiar with HTTP/S, HTTP/2, HTML5, and other web recording technologies will feel comfortable using NeoLoad.

Within the Kobiton platform, a user simply loads a mobile app, designs and records a mobile app test, correlates the testing scenario in NeoLoad, configures the expected load test, and runs it.

From there, NeoLoad provides important insights about the load test through its Smart Analyzer that includes comparisons between different tests—all in real-time. The Smart Analyzer allows you to look granularly at your load testing to identify issues and fix bottlenecks.



### About Kobiton

Kobiton is a mobile device platform that empowers devs and testers to build great quality mobile products faster. Our platform allows mobile app developers to access real iOS and Android devices, run manual or automated scripts, integrate with their CI/CD pipeline and identify issues in real time. Kobiton builds solutions that empower developers to create awesome products without sacrificing what’s important – time, money and resources. We provide high-value dev and testing solutions that are simple to use, seamless to integrate, and flexible in deployment.

### About Neotys

Neotys has nearly 15 years of development investment into NeoLoad – the performance testing platform designed to accelerate Agile and DevOps processes. It’s built by engineers who recognized that to achieve their Agile adoption objective; they needed to create a product that could facilitate superior load and performance testing continuously.

*The result – up to 10x faster test creation and maintenance with NeoLoad.*

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