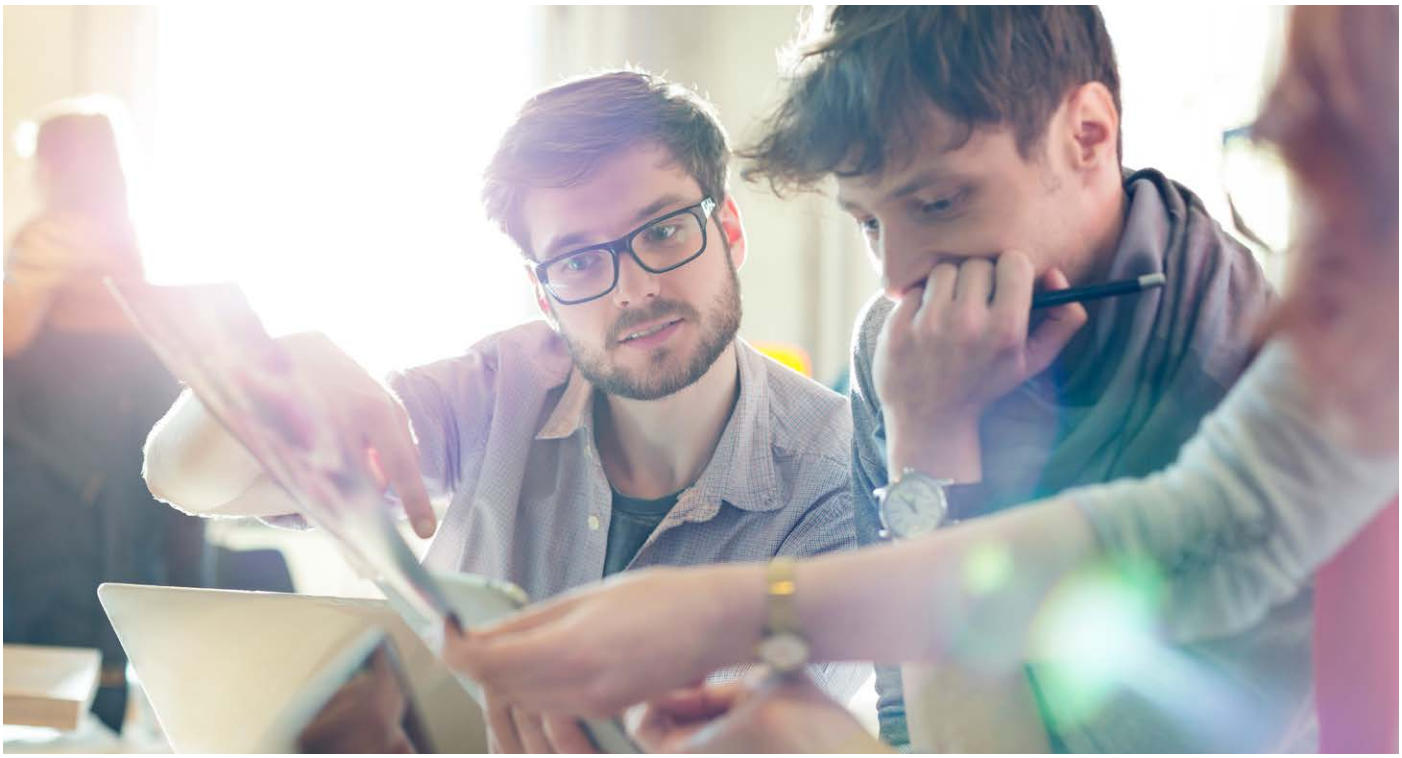
Integrate Appium and Selenium with OpenText Functional Testing Lab for Mobile and Web

Save budget and decrease technical barriers while supporting continuous testing of omnichannel mobile apps



Benefits

- Simplify information access
- Amplify team productivity
- Drive continuous improvement and optimization
- Easily scale mobile application testing projects
- Achieve aggressive testing goals

OpenText™ Functional Testing Lab for Mobile and Web amplifies team productivity by providing a centralized, enterprise-level, end-to-end lab and management gateway of distributed real mobile devices and virtual devices that helps teams develop, debug, test, monitor, and optimize their omnichannel mobile applications to promote an enhanced user experience across all digital touchpoints.

Developers and testers can validate all aspects of the mobile user experience including functionality, performance, and security using services simulations and network virtualization. OpenText Functional Testing Lab for Mobile and Web supports continuous testing and drives continuous improvement and optimization by analyzing availability and performance of mobile application via production monitoring.

For many reasons, Appium is a popular mobile app testing framework. Developers use their preferred integrated development environment (IDE) to develop and run the test and choose their programming language. Better still, Appium is open source and free.

"Through our digital transformation, supported by OpenText™ solutions,

we have reduced our defects by

90%

while realizing a cost reduction of

21%

through streamlining testing processes."

Luis Dujovne
Head of DevOps and Quality Assurance (QA)
BCI

Yet, while Appium is a good mobile test execution framework, it lacks lab management capabilities and doesn't provide everything needed for companies that deal with large projects and frequent app releases that must be proven to perform well on any device, any network, and in any user context. These companies have additional enterprise requirements, such as:

- Parallel executions in distributed locations.
- Scalable and simplified architecture for on-premises and hybrid environments.
- Proliferation of devices used.
- Low maintenance costs.
- Server authentication with roles and permissions.

OpenText Functional Testing Lab for Mobile and Web extends Appium with defect fixing and optimizations for specific Appium flows' performance, such as finding elements and objects. In some cases, OpenText Functional Testing Lab for Mobile and Web maintains backward compatibility for APIs which were deprecated, so scripts can be maintained across Appium versions. Together, OpenText Functional Testing Lab for Mobile and Web and Appium create a unique combination to empower end-to-end mobile application lifecycle development and testing on any combination of real devices and virtual devices using the IDE and scripting languages of choice.

Unique combination delivers superior platform testing

Meet enterprise requirements by relying on OpenText Functional Testing Lab for Mobile and Web out-of-the-box support for Appium. With OpenText Functional Testing Lab for Mobile and Web, your mobile development teams can continue to use their preferred testing framework and development language while taking advantage of enterprise-grade capabilities powered by OpenText Functional Testing Lab for Mobile and Web. These capabilities help your organization easily scale mobile application testing projects, achieve aggressive testing goals, run tests on multiple devices under different network conditions in parallel, and rapidly release superior applications to the market.

The combination of OpenText Functional Testing Lab for Mobile and Web and Appium delivers these key advantages:

- **Simple maintenance**—Simplify the parallel executions process and achieve iOS test automation using Appium without a Mac
- **Device management**—Rely on capabilities for scheduling device reservations, and controlling devices remotely
- **App management**—Upload app to OpenText Functional Testing Lab for Mobile and Web, automatically install appvon the device, and gain a central view of all app versions
- **Fewer tests**—Test multiple apps, including systems apps, in a single run
- **User management**—Manage roles and permissions and device pools access
- **Device flexibility**—Select test device by specifying its capabilities in a very flexible manner; you don't have to specify the device UDID or exact version number
- **End-to-end mobile security with Fortify**—Assess the security of source code, binaries, and the mobile app to underscore vulnerabilities across the client side
- **Remote Viewer**—Access a live remote demo while tests are running
- **Network Virtualization**—Emulate real-world network conditions to observe the network impact on end user experience and use NV Insights report to analyze performance results and view recommendations for improving application performance

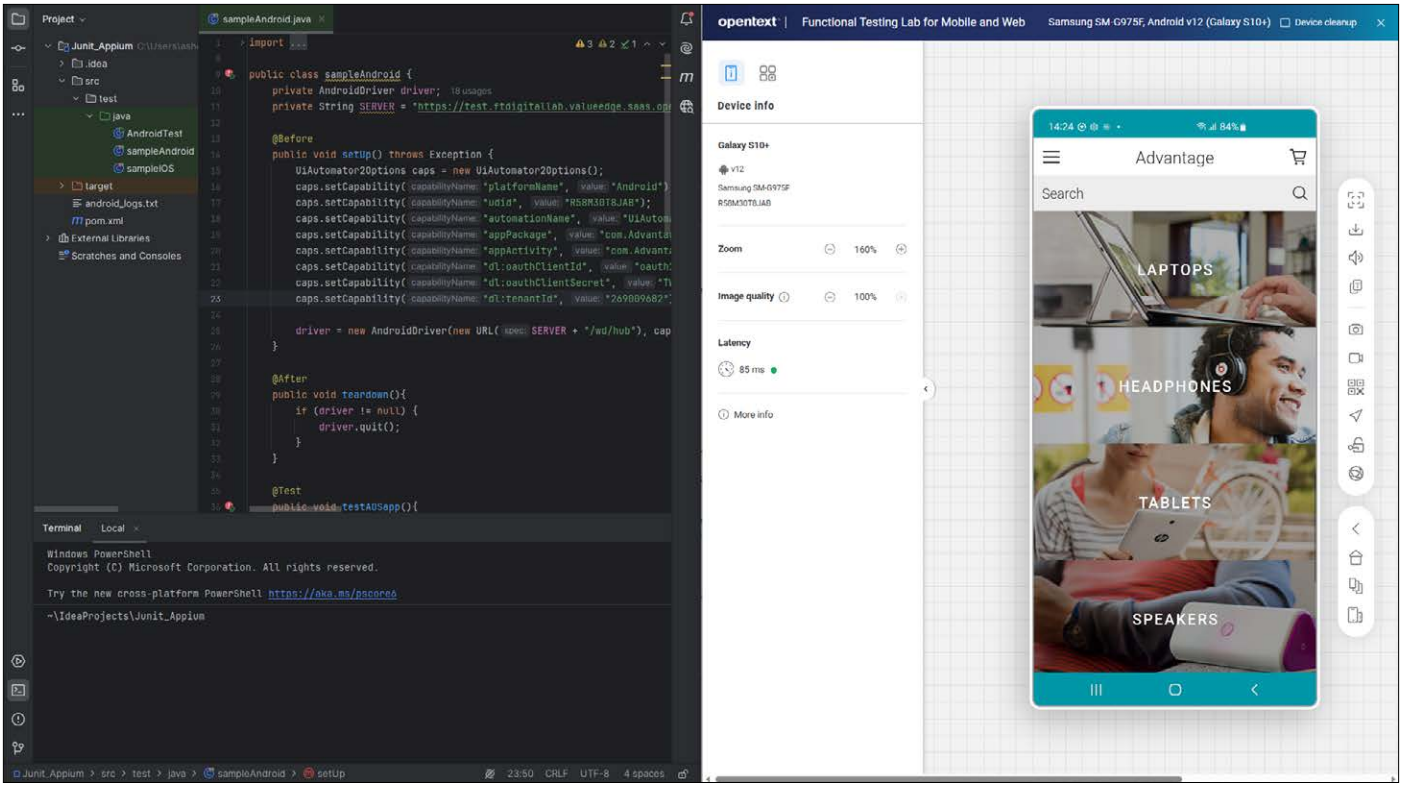


Figure 1. Your development team can now run Appium scripts with OpenText Functional Testing Lab for Mobile and Web

Resources

For more information about OpenText Functional Testing Lab for Mobile and Web, review the OpenText Functional Testing Lab for Mobile and Web › **product page.**

For more information on working with the Appium integration, visit the help center ›

Explore the OpenText Functional Testing Lab for Mobile and Web Help Center ›

How to improve mobile testing

Here are ways to significantly improve mobile testing with OpenText Functional Testing Lab for Mobile and Web and Appium:

- **Reduce** the dependencies on a Mac
- **Eliminate** the need for Selenium Grid and multiple Appium server instances
- **Enable** full automation on multiple apps, including system apps, within the same test
- **Emulate** real-world network conditions to observe the actual user experience of mobile users with different mobile connections (such as 3G and 4G)
- **Use** NV Insights report to analyze and improve application performance

Get the best of both worlds

You can now easily run Appium and Selenium scripts with OpenText Functional Testing Lab for Mobile and Web to empower your mobile testing processes. This combination gives you the best of both worlds: a great open source tool to develop test automated mobile testing for mobile native, hybrid, and web apps coupled with an integrated software development testing suite that helps you rapidly build, test, monitor, and deliver high-quality mobile applications.

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