

Tricentis Device Cloud: Real device farm with codeless test automation

Why mobile application testing is critical

To stay competitive, organizations must speed up mobile digital initiatives, which are critical in B2C/B2B sectors and account for more than 73% of total e-commerce revenue. Given that 86% of the global population owns a smartphone, user expectations are high, and a slow app can lead to a 90% user abandonment rate. In-house device labs, though an option, pose challenges like high infrastructure costs, overheating issues, and required updates, leading to productivity loss. Simulators offer partial testing solutions but cannot replicate real-world conditions such as the impact of network, Wi-Fi, location, and battery on the mobile app performance. To ensure agility and superior user experiences, organizations need a real device farm with enterprise-scale automation.

Introducing Tricentis Device Cloud

The Tricentis Mobile Solution unifies Tricentis Device Cloud — a real device farm — with our codeless test automation tools, Tricentis Tosca and Tricentis Testim. This blend enables teams worldwide to deliver flawless mobile applications. Our all-encompassing, tightly integrated solution allows your teams to manage, author, execute, and analyze tests on actual smartphones and tablets within the Tricentis ecosystem. It supports various popular Android and iOS devices, including Apple iPhone, Samsung Galaxy, Google Pixel, Oppo Find, Vivo, Huawei, and more. Teams can select from a diverse array of smartphones and tablets in the cloud, coupled with robust performance analytics and a Mobile AI engine for swift issue detection and enhanced mobile experiences.



Use cases

User experience and performance

Track key metrics: blurriness, blockiness, download speed, network performance (3G-5G), CPU usage, memory, and battery drain. Enhance app usability, responsiveness, and satisfaction for an optimal mobile experience.

Consistency between desktop, web, and mobile

Ensure business process consistency by testing every layer — desktop, web, API, and mobile. Combine mobile tests with enterprise apps like SAP and Salesforce in Tosca for full regression portfolio coverage.

Native mobile app development

Create apps specifically designed for mobile devices, optimizing for native features, performance, and platform-specific UX. With Testim and Device Cloud, test iOS and Android native apps for fast, Agile development.

Device compatibility

Assess app compatibility across various OS, browsers, and devices for peak performance. Test on diverse smartphones, tablets like iPhone, iPad, Samsung Galaxy, Google Pixel, Vivo, Huawei, and more.

Capabilities



Codeless automation: Create and maintain tests via model-based testing, no coding required



Timeline data analysis: Scroll through data with side-by-side video for quick issue detection



Performance monitoring: Compare sessions over builds for performance and UX impact



Custom KPIs: Validate custom KPIs like time-to-cart or time-to-book



Mobile AI: Tracks 130+ KPIs (image, text, audio, video) for comprehensive UX insights



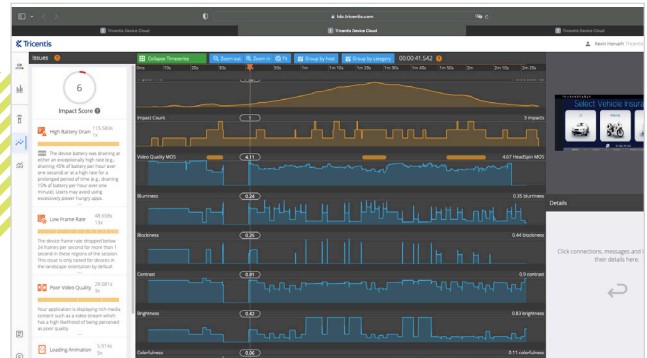
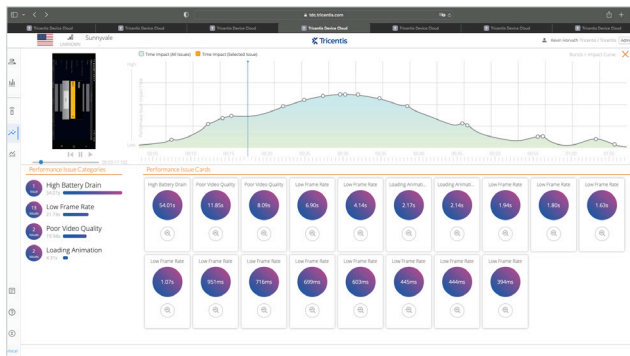
Deployment: Private (single-tenant) or public (multi-tenant) deployment options



Impact score: Aggregated data point guides go/no-go launch decisions



CI/CD: Seamless integration with ALM, CI/CD, versioning tools



Additional use cases

Network: Validate performance across varied networks (3G, 4G, LTE, 5G) or simulate network conditions through throttling.

SIMcards: Test on devices with real SIM cards for comprehensive cellular network connectivity scenarios.

Push/SMS notifications: Test push notifications' functionality to ensure timely and accurate user alerts.

2-Factor-Authentication: Provides coverage for 2FA, including OTP testing and other SMS and interruption scenarios.

Geofencing: Evaluate GPS and Wi-Fi-based geofencing for timely, location-specific promotional push or SMS notifications.

Hand gestures: Test gestures like tap, double tap, swipe, pinch, swirl etc., for optimal user interaction.

Bluetooth connectivity: Validate seamless Bluetooth pairing, data exchange, and app performance.

Passcode: Verify pin or password-based workflows like single sign-on to ensure security.

Downloading files: download and upload range of files to devices such as images, music, video, or docs like PDFs and sheets.

Web-to-App redirection: Ensure users are automatically directed to download the native app from your website.

Field operations: Ensure real-time tracking for field workers in logistics, utilities, oil & gas sectors.

Combine codeless automation with real smartphone execution

Tricentis Device Cloud is available through both Tosca and Testim. You can build resilient, code-free tests while executing across real devices in the cloud, helping teams deliver flawless mobile applications at DevOps speed.

Tosca Mobile

For enterprise IT and QA teams who want to deliver high-quality mobile apps across their integrated application landscape.

Testim Mobile

For application development teams who want to speed up Agile delivery for their mobile apps.

Device Cloud

An add-on to Tosca and Testim that helps teams execute and analyze testing for real smartphones and tablets in the cloud.

Why Tricentis?

One definition

Combine functional, performance and user experience testing at every point in your mobile testing journey.

Fully codeless

Empower diverse teams to contribute to mobile quality, freeing developers to focus on feature creation.

AI-powered

Combine Mobile AI, Vision AI and Self-Healing AI to deliver smarter, faster, more reliable mobile application testing.

DevOps for Mobile

Seamless CI/CD integration ensures you can execute tests smoothly, without waiting for devices to become available.

Benefits

95%

RISK COVERAGE

Reduce the number of production issues by 90%

80%

FASTER

Increase the speed of your testing cycles by 80%

90%

COLLABORATION

Boost developer and tester collaboration with a rich intelligent insights platform

+64%

RETENTION

Increase your user retention by 64% through better UX and performance

Learn more

If you are interested in learning more about how Tricentis Device Cloud can turbocharge your mobile testing, visit our product page at <https://www.tricentis.com/products/device-cloud>.

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