

# CA Mobile Cloud



## At a Glance

CA Mobile Cloud is an integrated product add-on to CA Application Test (included with CA Service Virtualization) that delivers an always-on test environment consisting of real mobile devices and real end-user conditions that enable developers, testers and performance teams to optimize end-user experiences at scale.

### Key Benefits/Results

- **Parallel Development**—Drive mobile testing in continuous delivery.
- **Improved Productivity**—Automate and run more tests without adding resources.
- **Higher Quality**—Optimize end-user experiences at scale.
- **Cost-Effective**—Reduce CapEx, start large or small scale testing activities.

### Key Features

- **Centralized** cloud-based device lab
- **Enterprise-grade** security and reliability
- **Always-on** lab 24/7/365
- **Wide selection** of legacy and current devices
- **Zero-day** device and OS availability
- **Flexibly scalable**, on demand, anywhere
- **Device-agnostic** scripting
- **iOS** system-level remote device control
- User **profile-based** test automation
- Cross-platform test automation
- **Manual** testing supported
- **Appium**-based and advanced editing tools
- Visual validation (**OCR**)

## Business Challenges

Today we live in a mobile-first world with discriminating users who engage with applications many times using less-than-ideal devices and conditions. Ultimately, ease of use, response time and successful completion of a request are how a user judges any app. Achieving success in the new mobile world requires an organization to go beyond traditional testing approaches. To succeed in the new mobile economy you need to:

- **Test on Real Devices**—Emulators and simulators can be used for lightweight testing, but eventually you need to test on real devices. Setting up device test labs can be expensive and resource-intensive and can cause considerable production delays.
- **Test for the Real World**—In the real world there are bad network conditions, background apps running, low-battery concerns, call and text message interruptions and shared physical resources such as cameras. Testing using real-world requirements adds another layer of complexity.
- **Go Beyond Functional Testing**—Testing only the functionality of a mobile interface or application is not enough. The application's look and feel also need to be validated on a real screen.

## Solution Overview

Using CA Mobile Cloud, powered by Perfecto and CA Application Test together, you can go beyond atomic functional testing by running a single test across multiple devices. This will allow you to see how your application runs and compare the results side by side across different devices in a single view. In addition, by allowing the test to run in parallel, the overall time needed to regress an application is reduced by the number of parallel devices.

The solution supports locally attached and cloud-based devices. It enables users to remotely access a large selection of real mobile devices connected to cellular networks around the world. With Wind Tunnel™, testers can preload different user personas and test an application the same way it would be running in an actual user's hand. Ultimately empowering testing to go beyond functional testing and into a metric-driven end-user experience testing under real-world conditions.

## Critical Differentiators

CA Mobile Cloud works with CA Application Test to accelerate release cycle times for mobile web, native and hybrid applications across a complex and ever-changing array of mobile platforms and devices. Enterprise teams can focus on building apps and not on managing complex lab infrastructures with rapidly changing devices and operating systems.

- **Always-on digital secure quality lab** in the cloud that provides your users across the world access to thousands of real devices so that they can test mobile apps in any real-world, end-user condition.
- **Persona-based testing with Wind Tunnel.** Set user profiles within test code to mimic real-world environments including network conditions, locations, incoming alerts, app vitals and timers and background apps.

- **Test and validate across all layers with a single test.** The unique ability of CA Application Test to invoke at the mobile device layer and verify updates to a backend systems ensure that an application is working from end to end.
- **Automate across platforms.** Use a single script for iOS and Android.

## Related Products/Solutions

- **CA Application Test** automates mobile testing by enabling the use of an existing test for filters, assertions, reports or data sets with an Appium-based plug-in for iOS and Android app tests.
- **CA Service Virtualization** enables first-day automation by simulating missing services and data. CA Service Virtualization includes CA Application Test in the base license.

- **CA Test Data Manager** is an end-to-end test data management solution that enables companies to generate secure, purpose-fit test data on demand.
- **CA Mobile Application Analytics** delivers deep visibility from mobile to mainframe, so you can discover a critical insight that's the difference between bottleneck and blockbuster.

## Effortlessly Expand Your Test Coverage to Include Real User Experiences with Wind Tunnel

Profile	Location	Smartphone	Tablet	Network conditions	Orientation	App BG apps
<b>Georgia</b> Business person Age:47	New York	iPhone 6S	iPad Mini 4	Poor 4G LTE & wifi		
<b>Ross</b> College student Age:20	Florida	HTC One M7	×	Average 3G		
<b>Peter</b> Municipal worker Age:57	UK	iPhone 5S	×	Average 3.5G		
<b>Sam</b> Gamer Age:30	Chicago	Samsung Galaxy Note 5	Samsung Galaxy Tab S 10.5"	Average 3G & wifi		
<b>Sara</b> Stay at home mom Age:38	California	Samsung Galaxy S6	×	Good 4G		

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