

# Mobile Application Security

## Strategies designed specifically to address mobile's unique security challenges

Our mobile security specialists understand the particular risks mobile application providers face. Mobile Application Security Testing (Mobile AST), our mobile-specific tools and testing approach delivered as-a-service, helps you build security into the fast-paced development process required to succeed in the competitive mobile marketplace.

## Tailored for mobile's specific needs

Traditional application testing methodologies and off-the-shelf, automated testing tools are not sufficient to identify insecure client-side code in mobile apps. That's why our security experts designed an application security testing suite and in-depth manual tests specifically for mobile, allowing us to consider every aspect of mobile security, including critical business logic and how applications/systems interoperate.

Using a combination of proprietary static and dynamic analysis tools working together rather than in isolation, we can help you discover vulnerabilities accurately and efficiently. The best part: Unlike web applications, mobile apps provide our security team visibility even without access to source code.

## Flexible and effective

We combine automated scanning with manual testing to find vulnerabilities wherever they exist, whether in client-side code, server-side code, or third-party libraries. We also address the various security concerns and controls affected by these:

- App type (native, mobile web, cross-platform)
- Lack of network perimeter
- Inability to control distribution
- Operating system and frameworks
- Distribution of mobile apps
- Tendency for mobile devices to be lost or stolen
- Access level (employee-only, public)
- Type of data collected
- Need for nontraditional security controls
- Type of testing tools
- Amount of sensitive intellectual property

You can't keep mobile apps safe with a web-only strategy

## Choice of assessment to match your strategy

**Mobile-Standard:** Blended automated and manual analysis finds vulnerabilities in application binaries running on mobile devices that cannot be found through automated analysis alone. SLA 5–7 days

**Mobile-Comprehensive:** Blended automated and manual analysis finds vulnerabilities in application binaries running on mobile devices as well as corresponding server-side functionality. SLA 10–12 days

## Always on the cutting edge

The mobile landscape is evolving rapidly. Each new mobile operating system version, each new mobile app development framework, and each newly discovered attack opens new security issues that may affect your apps. Our mobile security experts stay on top of these developments and constantly update our tools, process, and knowledge base so when we test your apps, you'll benefit from the most advanced strategies.

### Top 10 mobile risks

1. Weak server-side controls
2. Insecure data storage
3. Insufficient transport layer protection
4. Unintended data leakage
5. Poor authorization and authentication
6. Broken cryptography
7. Client-side injection
8. Security decisions via untrusted inputs
9. Improper session handling
10. Lack of binary protections

## 6 benefits to using our Mobile AST

1. **Expediency:** We help you quickly implement and scale Mobile AST capabilities through cloud-based managed services.
2. **Flexibility:** We provide you assessment depth flexibility to address your release frequency and assessment requirements.
3. **Enablement:** We walk you through your test results and help you develop a remediation plan best suited to your needs.
4. **Comprehensiveness:** We don't treat the assessment as just another web application assessment. Our holistic Mobile AST approach includes blended SAST and DAST assessments, manual and tool-based assessments, thorough analysis of results, and detailed reporting and actionable remediation guidance.
5. **Scalability:** We provide consistent and scalable delivery through our Customer Assessment Center (CAC) without compromising manual reviews.
6. **Adaptability:** Our security experts can help you adapt to changing platforms/development frameworks, new versions of mobile operating systems, and more.

## The Synopsys difference

Synopsys offers the most comprehensive solution for building integrity—security and quality—into your SDLC and supply chain. We've united leading testing technologies, automated analysis, and experts to create a robust portfolio of products and services. This portfolio enables companies to develop customized programs for detecting and remediating defects and vulnerabilities early in the development process, minimizing risk and maximizing productivity. Synopsys, a recognized leader in application security testing, is uniquely positioned to adapt and apply best practices to new technologies and trends such as IoT, DevOps, CI/CD, and the Cloud. We don't stop when the test is over. We offer onboarding and deployment assistance, targeted remediation guidance, and a variety of training solutions that empower you to optimize your investment. Whether you're just starting your journey or well on your way, our platform will help ensure the integrity of the applications that power your business.

For more information go to [www.synopsys.com/software](http://www.synopsys.com/software).

**Synopsys, Inc.**  
185 Berry Street, Suite 6500  
San Francisco, CA 94107 USA

U.S. Sales: 800.873.8193  
International Sales: +1.415.321.5237  
Email: [sig-info@synopsys.com](mailto:sig-info@synopsys.com)