OneSpan

HIGHLIGHTS

App Shielding with runtime protection includes:

- Overlay Detection
- Jailbreak & Root Detection
- Anti-Code Injection
- Anti-Key Logging
- Anti-Screen Reader
- Anti-System Screenshots
- Anti-Screen Mirroring and External Monitors
- Anti-Re-Packaging Protection
- Debugger detection
- Runtime Protection– Integrity Check
- Emulator Detection
- Obfuscation

MOBILE SECURITY SUITE: APP SHIELDING & RUNTIME PROTECTION

Defeat mobile application attacks with complete protection from the inside out

Businesses develop and market their own mobile apps at a feverish pace, driving a significant increase in the attack surface and related fraud. At the center of this threat are hackers who release malware that exploits mobile OS vulnerabilities. App Shielding with runtime protection by OneSpan equips businesses with strong, natively integrated app security that dynamically detects and mitigates these attacks.

Secure sensitive data

App Shielding by OneSpan proactively protects against zero-day and other targeted attacks, allowing mobile business apps to run securely, blocking foreign code from executing or shutting down the application if a threat to data exists. Integrating App Shielding with runtime protection into mobile apps ensures the complete integrity of the apps and fully protects sensitive business and personal data from cybercriminals.

Integrated protection

App Shielding wraps around the application code to protect against foreign code injection. Even if a device becomes infected with malware, including system components such as screen-readers or key logging on Android, runtime protection technology will detect and prevent that code from running.
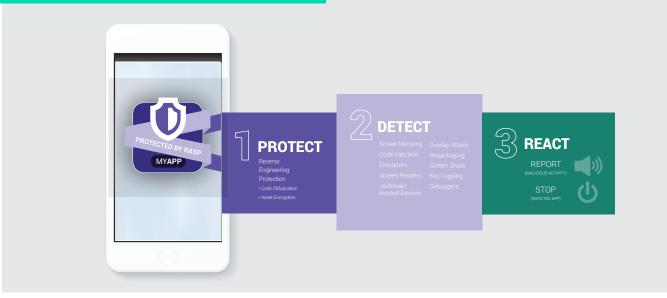
Strengthen application security

App Shielding provides an extensive list of features that are easy to integrate and invisible to the end user. As a result, App Shielding allows businesses to extend and strengthen application security, protect customers and meet aggressive application development timelines.

Mobile Security Suite

App Shielding with runtime protection is available as an optional feature in OneSpan Mobile Security Suite. Mobile Security Suite is the most comprehensive mobile in-app protection solution of its kind, seamlessly integrating identity/authentication, secure storage and communications, obfuscation, whitebox cryptography, runtime protection and more into any mobile app.

App Shielding & Runtime Protection

Jailbreak & Root Detection

Device Identification

Geolocation

Device Binding

Secure Storage

Secure Channel

E-Signatures

Behavioral Biometrics Authentication

Face Authentication

Fingerprint Authentication

Risk-Based Authentication

Cronto® Authentication

QR Code Support

Transaction Signing

Push Notification

1 PROTECT
Reverse Engineering Protection
• Code Obfuscation
• Asset Encryption

2 DETECT
Screen Mirroring
Code Injection
Emulators
Screen Readers
Jailbreak/Rooted Devices
Overlay Attack
Repackaging
Screen Shots
Key Logging
Debuggers

3 REACT
REPORT (MALICIOUS ACTIVITY)
STOP (INFECTED APP)

How it works

App Shielding with runtime protection ensures the integrity of mobile apps in three ways: Protect, Detect and React. It protects the trusted mobile application by preventing reverse engineering techniques via code obfuscation and anti-repackaging technology.

It actively detects malicious key logging, screen readers, repackaged applications, debuggers and emulators, and jailbroken or rooted devices. It can then be configured to react to prevent malicious activities by shutting the app down or enabling customized actions based on business policy.

TECHNICAL SPECIFICATIONS

iOS	App Shielding with runtime protection supports iOS 8.0 and later along with the following architectures: • armv7 • armv7s • arm64 • x86 • x86_64
Android	App Shielding with runtime protection supports Android 4.1 (API 16) and later along with the following architectures: • armeabi-v7a • arm64-v8a • x86 • x86_64

OneSpan

OneSpan enables financial institutions and other organizations to succeed by making bold advances in their digital transformation. We do this by establishing trust in people's identities, the devices they use, and the transactions that shape their lives. We believe that this is the foundation of enhanced business enablement and growth. More than 10,000 customers, including over half of the top 100 global banks, rely on OneSpan solutions to protect their most important relationships and business processes. From digital onboarding to fraud mitigation to workflow management, OneSpan's unified, open platform reduces costs, accelerates customer acquisition, and increases customer satisfaction.

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