

Securemetric Technology SMobileSHIELDX

Application Protection and Security for Mobile Apps

What is SMobileSHIELDX

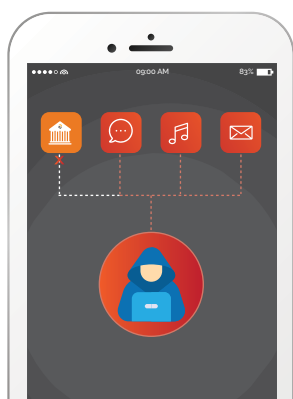
Secure Mobile Shield Extreme (SMobileSHIELDX) is a mobile application security that provides self-defending capabilities to the mobile application to protect against a wide range of attack vector such as Debugger, Code Injection, Reverse Engineering, Code Analysis and many others. Our technology support cross platform for both iOS and Android mobile application.



Common Threats of Mobile Apps

Reverse Engineering & Code Analysis

Code Modification & Code Injection



Consequences

- > Private and sensitive data can be exposed
- > Apps can be reverse-engineered back to the source code
- > Code and IP can be stolen, reused or repackaged

Consequences

- > Run-time behaviour of app can be altered, causing unsafe or improper operation
- > Malicious code can be injected or hooked into apps
- > Apps can be modified and tampered



Solution for Mobile Apps Threats

Additional Multi-layered Security

SMobileSHIELDX protects apps from **Static Analysis** (encryption and obfuscation). Our technology ensure that the source code is unreadable to attackers that manage to decompile or disassemble them. This prevent the attacker from gaining insight into the structure of apps, extracting or altering the code and exploiting vulnerabilities.

SMobileSHIELDX also detects and prevents **Dynamic Analysis** and real-time attacks. Our technology allows to safeguard mobile apps against:

- Reverse Engineering/ Decompilation
- Malware Insertion
- Spoofing of Apps to Access Sensitive Data
- Intellectual Property Theft and Piracy
- Tampering with Security Controls or Sensitive Functions
- Unauthorized Access and Fraud
- Keylogger
- Framework Hooking
- Code Injection

Fast And Easy Integration

SMobileSHIELDX can easily turn apps into a self-protecting mode by using our integration tool, or an SDK. Once secured, the app is immediately ready for distribution via public or enterprise app stores.

Technology Concept



Protecting the apps even when the device is infected

Product Features



PROTECT

Protect Against Compromise



DETECT

Detect Attacks at Runtime



REACT

React to Ward Off Attacks

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|--|---|---|
| <ul style="list-style-type: none"> ✓ Code obfuscation ✓ App binding ✓ Repackaging detection ✓ App communication <ul style="list-style-type: none"> > TLS certificate pinning > Client authentication using a client-certificate > Identifying the app/ device as an authentication factor ✓ Store data encrypted inside the app ✓ Binding the data to be encrypted to the device ✓ Whitebox cryptography ✓ App Management Solution <ul style="list-style-type: none"> > Trusted binding between a user, an app and the device > Making the app trusted without external security tokens > Registration/ activation – securely pair the app/ device with the user | <ul style="list-style-type: none"> ✓ Ensure app is running in safe environment <ul style="list-style-type: none"> > Debugger detection > Jailbreak / Root detection > Emulator detection ✓ Ensure app is not altered or tampered with (e.g. by malware) at runtime <ul style="list-style-type: none"> > Checksum > Resource verification > Hook detection | <ul style="list-style-type: none"> ✓ Shutdown (Exit/ Fail) ✓ Integrity checking ✓ Custom reactions ✓ Screenshot detection/ blocking ✓ Anti keylogging <ul style="list-style-type: none"> > Anti screenreading ✓ Alert/ reporting ✓ Blocking external screens ✓ Prevent brute force decryption of sensitive information |
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