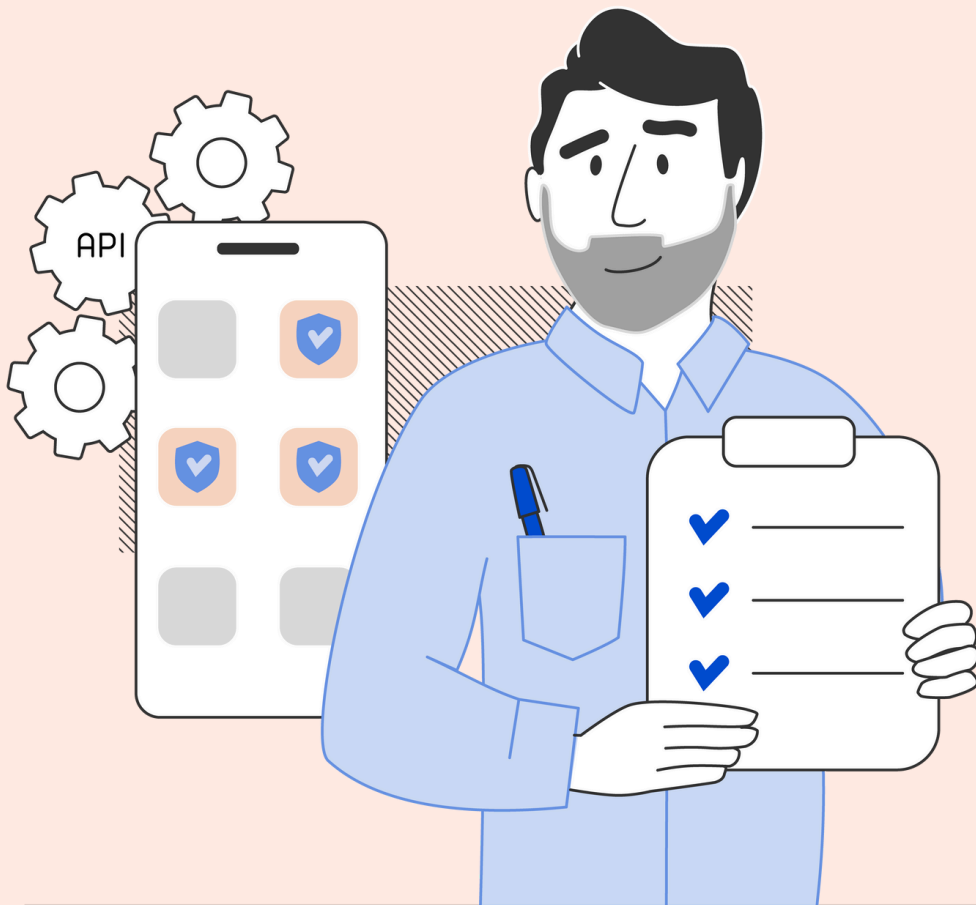# PROMON

Promon Verify™

Ensure every app connection is authentic and trusted

Promon Verify™

Even the most protected app can't stop a rogue client from impersonating it. Promon Verify™, an extension of Promon Shield for Mobile™, closes that gap, providing real-time, in-band attestation that confirms every API request truly comes from your authentic, uncompromised app.

Built on the same trusted technology that stops reverse engineering and runtime attacks, Verify extends that protection to the API layer, ensuring your app and backend communicate only through verified, trusted connections.

Verify delivers continuous, cross-platform validation: stateless, self-hosted, and fully under your control. It's how modern organizations secure their APIs, reduce fraud, and build digital trust.

Platforms	Android, iOS
Frameworks	Native (Swift, Objective-C, Kotlin) Hybrid (React Native, Cordova, Ionic) Multiplatform (Flutter)
Integration	Lightweight SDK and stateless backend component
Hosting	Fully self-hosted; customer hosted

Why Promon Verify™

✓ **Secure your APIs from impersonation and abuse**

Mobile APIs are under attack. Breached apps can expose hardcoded API keys, letting clones, bots, and emulators impersonate legitimate apps.

Verify ensures that every API call comes from a Shield-protected, verified app, allowing operators to block requests from compromised, repackaged, or hooked environments before they reach your backend.

✓ **Continuous attestation, every request**

Verify provides a unified, self-hosted framework for continuous transactional validation which goes beyond simple implementation of OS-native attestation services like those of Google and Apple.

Each request is cryptographically verified in real time to confirm that the app, the device, and its runtime state remain uncompromised, even if conditions change during use.

✓ **Full control, zero dependencies**

Promon Verify is fully self-contained and self-hosted, with zero dependencies on third-party cloud services. You maintain complete sovereignty over your trust chain, data, and infrastructure: no external servers, rate limits, or regional restrictions.

It's purpose-built for regulated and privacy-sensitive industries that require granular, API-level control over how requests are verified, going beyond the constraints of Apple and Google's platform-specific attestation frameworks.

What sets Promon Verify™ apart

Continous, real-time verification

Performs app and device validation at every API call, ensuring ongoing trust across sessions.

Platform-agnostic and self-hosted

Works seamlessly on Android and iOS without relying on OS-native attestation services, ensuring control, uptime, and privacy.

Seamless integration, minimal overhead

Attestation data is exchanged in-band within existing communication channels, with no new endpoints or architectural changes. Cryptographic operations are optimized for minimal overhead, ensuring efficient integration and negligible latency.

Cryptographic handshake for authenticity

Uses Shield's white-box cryptography and message authentication codes (MACs) to ensure requests come only from genuine, uncompromised apps.

Real-time threat blocking

Verify allows you to automatically reject API requests from rooted/jailbroken devices, repackaged apps, or runtime manipulations—stopping malicious clients before they reach your systems.

Complements Promon Shield for Mobile™

Promon Verify extends Shield's runtime protection to your backend, creating an unbroken chain of trust from app code to API. Together, they provide layered protection that prevents tampering, impersonation, and data exfiltration across the full mobile security lifecycle.

How it works

Promon Verify uses a **challenge–response mechanism** to confirm that each API request comes from a legitimate, Shield-protected app running in a secure state.

1. **Challenge initiation:** The backend server sends a challenge token to the app.

2. **Cryptographic response:** The app, protected by Promon Shield for Mobile™, generates a response token using a shared cryptographic secret.

3. **Server-side validation:** The API server verifies the response and authorizes or rejects the request.

Because all validation happens in-band within your existing communication flow, Promon Verify adds no dependencies, or extra attack surface, and supports native, hybrid, and Flutter-based apps with equal ease.

PROMON

About Promon

Promon leads the way in proactive mobile app security. For 19 years, we've been making the world a safer place by securing any app, on any device—in no time at all. Today, we protect over 2 billion users, secure 13 billion monthly transactions, and safeguard $2.5 trillion in market cap. Promon is headquartered in Oslo, Norway, with offices in more than 15 countries around the world.

Would you like to talk to an expert?

Mobile app security is crucial to preserve and improve your business reputation. Request pricing or talk to an expert to learn more today.

Book a meeting »