

Android Security SDKs

Android devices are a popular target for attackers. Millions of smartphones are infected every year, facing risks like commercial spyware, network spoofing, and phishing.

With BYOD smartphones still dominating the IT infrastructure, android security is a must-check box. Bitdefender developed multiple detection and protection technologies for Android devices, which partners can license to enhance their security offering and address evolving market demands.

The technology is a great fit for mobile application developers, MDM platforms, mobile device manufacturers, mobile operators, and security vendors.

Features

- ↳ **Advanced detection engine:** Simple signatures can detect known malicious applications, while behavior profiling, meta-data correlation, and other complex detection mechanisms can identify the most sophisticated polymorphic threats.
- ↳ **AI-powered malware detection:** Bitdefender's anti-malware SDKs are powered by machine learning algorithms trained on carefully built data sets to improve detection rate and minimize false positives.
- ↳ **Built for ARM:** The Android Security SDK was built to run natively on ARM devices, in Java only, so no native libraries are required.
- ↳ **In-depth security:** Bitdefender's android security SDKs feature an application scanner, and a web security SDK for full URL filtering.

Protection on the Go: How Bitdefender's Android Security SDKs Work

Bitdefender's core Android security SDK is the anti-malware scanner, which can detect malicious applications on-install, or on-demand. It employs signature-based scanners, behavior profiling, meta-data correlation, and several machine learning algorithms to detect malicious applications.

When a scan is called, the local component of the SDK only extracts meta-data from APKs, then queries it to Bitdefender's low latency, high-throughput servers. This set-up ensures minimal footprint on the device, reliable verdicts, and data privacy.

At-A-Glance

Bitdefender's Android Security SDKs offer scanning and content filtering capabilities to mobile app developers, MDM platforms, mobile device manufacturers and any other security vendor that wants to license award-winning anti-malware technology.

Benefits

- ↳ **Award-Winning Protection:** Bitdefender maintains 99,9% detection rates in independent tests, with minimal false positives and lightning-fast scanning speeds.
- ↳ **Low Footprint:** All Android Security SDKs maintain a small memory footprint, and negligible impact on battery life.
- ↳ **Easy Integration:** The Android Security SDKs are built in Java, with minimal dependencies. When licensing the technologies, partners receive comprehensive documentation, code samples, and tech support from an experienced team.
- ↳ **Flexible Deployment:** Partners can run the application scanner in the Bitdefender cloud, or locally on the protected device. They can also license additional content filtering tools, and they can co-brand these technologies, or white label them.

The SDK's capabilities can be integrated from a Java language API. The technology was built to run natively on ARM devices with Android installed, and it supports any OS from Android 2.2 onwards. It's built in Java only, so no native libraries are required.

Additionally, partners can license the Web Security SDK, which seamlessly adds URL filtering capabilities to Android security solutions. It leverages Bitdefender's large datasets of threat intelligence to filter all URLs accessed based on 50+ categories (search engine, social networks, gambling, etc).

The branding for the licensed solutions is up to the integrator. They can co-brand with Bitdefender and leverage the name recognition of a global leader in cyber security, or they can white label the Android Security SDKs.

FREE Evaluation

Evaluating the Bitdefender Android Security SDKs is free of charge and includes technical support.

Contact us

For more information regarding the Android Security SDKs please reach us at

<https://www.bitdefender.com/oem/contact-us.html>

