



Appknox Case Study

Navigating mobile app security challenges: Insights from a global electronics powerhouse

Overview



Challenge

The Fortune 2000 organization faced issues with its in-house cybersecurity tool's inaccurate detection and high false positive rates.

Testing a large portfolio of mobile apps strained resources, and manual testing by developers increased costs and caused delays. The lack of a budget-friendly all-purpose security solution forced compromises and integration challenges.



Solution

The Fortune 2000 company employed Appknox's automated vulnerability assessment to streamline security testing, reduce manual effort, deliver real-time insights, and improve accuracy by reducing false positives to < 1%.

Appknox's dedicated team conducted comprehensive penetration testing on the application portfolio. The subscription model provided a cost-effective, all-in-one solution with seamless integrations, ensuring scalability.



Results

Appknox spearheaded a cybersecurity transformation for the Fortune 2000 organization elevating vulnerability detection, optimizing testing, and delivering robust mobile app security support thus empowering developers to focus on innovation.

The centralized dashboard facilitated efficient prioritization, while the subscription model provided a predictable cost structure, eliminating the need for expensive custom solutions.

What Appknox helped achieve

01

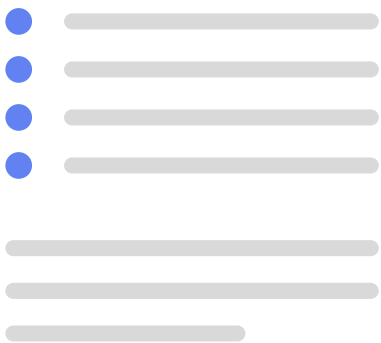
Achieved up to 70% of time reduction with enhanced coverage

02

Seamless scalability and predictable costs with zero hidden charges resulting in cost savings of 30-50% compared to custom in-house or legacy solutions

03

Reduced developer workload and development time by up to 50% ensuring a faster go-to-market



Client profile

INDUSTRY

Manufacturing

SERVICE LOCATION

Global

HEADQUARTERS

Singapore

REVENUE

\$29.72 B

EMPLOYEES

170000+

SECURITY TEAM SIZE

30-40



About the company

Headquartered in Singapore, this global consumer electronics leader, supply chain, and manufacturing solution provider has a workforce spanning over 30 countries.

The company aims to build a sustainable operation of manufacturing products and is relentlessly working towards becoming the most trusted partner in the business and serving a diverse customer base.

The challenges

As mobile devices play a pivotal role in consumer interactions, the assurance of a secure app becomes paramount in safeguarding against cyber threats.

For a Fortune 2000 organization globally recognized as a leader in consumer electronics, the imperative lies in protecting user data, fostering trust, and upholding the integrity of its esteemed brand.

Here's a list of some of the top challenges faced by the Fortune 2000 organization.



Inaccurate in-house cybersecurity tool

The in-house cybersecurity tool faced challenges in detecting critical vulnerabilities across various areas.

High false positive rates disrupted operations, straining IT resources, while the tool's infrequent updates left the company exposed to emerging threats. Enhancements were needed for accuracy and timely threat intelligence.



Manual testing of errors by developers

Manual testing slowed down the development process, increased costs, and delayed product releases. Human errors and inconsistency in testing posed risks, demanding more reliable methods.

Additionally, manual testing reduced developer productivity, diverting focus from core tasks and impeding overall innovation.



Lack of a budget-friendly all-purpose security solution

Finding a cost-effective, comprehensive security solution was challenging.

Limited budget options forced compromises, hidden costs in custom solutions could escalate, and integration challenges with existing infrastructure added complexity. A balanced, budget-friendly solution was essential.



Large portfolio of mobile apps required testing

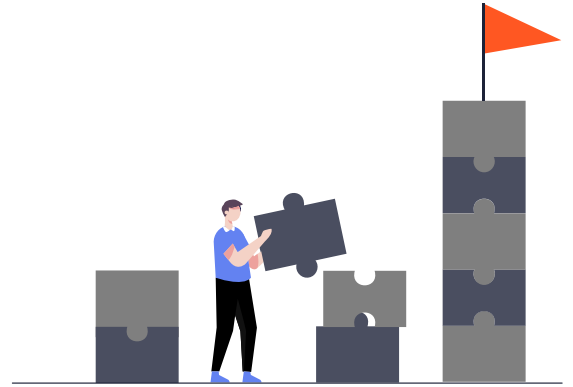
The security team grappled with a significant workload due to numerous mobile apps requiring testing.

This challenge demanded increased resources, risked duplicate efforts, and required specialized expertise in mobile app security.

The solution

The existing cybersecurity framework, marked by an inaccurate in-house tool and inefficient manual error checking, exposed the company to vulnerabilities and impeded developer productivity.

Appknox orchestrated a transformative shift, introducing advanced vulnerability detection, streamlining security testing, and optimizing the overall security posture. This not only fortified the company's defenses but also allowed developers to innovate without compromising on safety



Enhanced vulnerability detection and accuracy:

Appknox's automated vulnerability tool improved vulnerability detection and accuracy with integrated automated static and dynamic analysis engines which identified blind spots, covering a broad range of vulnerabilities across applications also extending to APIs.

Appknox's advanced scanners reduced false positives to <1% and streamlined the development workflow.



Comprehensive support for mobile app security with penetration testing

For comprehensive support in mobile app security, Appknox provided a dedicated team of mobile app security specialists who conducted grey box testing on their entire application portfolio to uncover vulnerabilities often missed by automated tools.



Cost-effective, all-in-one security solution with seamless integrations

Appknox's subscription model offered predictable costs and a comprehensive security suite, eliminating custom solutions and hidden fees.

Its cloud-based platform scaled and adapted to the company's needs, making it a preferred all-in-one solution.



Streamlined security testing and reduced manual workload:

Appknox automated vulnerability assessment, freeing developers for core tasks.

A central dashboard prioritized fixes based on criticality and CI/CD integration caught issues early and prevented their release into production.

The impact

After integrating Appknox in late 2020 in the security assessment workflow, the global consumer electronics leader was able to add **Appknox's robust vulnerability assessment capabilities and detect a total of 340 vulnerabilities within the first 90 minutes spent on each application.**



Parameter	Before Appknox	After Appknox	Impact
Vulnerability coverage	Limited in-house security tool with missed vulnerabilities	Broader vulnerability detection across web, mobile, and APIs	Up to 70% reduction in vulnerability detection time
Time	Manual error checking by overburdened developers	Reduced developer workload and faster time to market	Up to 50% reduction in development time and effort and faster go-to-market
Effort	Unsecured large portfolio of mobile apps	Comprehensive mobile app security across all apps	Up to 80% reduction in effort required to secure all mobile apps compared to manual testing
Cost	Lack of cost-effective, all-in-one security solution	Easy scalability and predictable costs with 0 hidden charges	Cost savings of 30-50% compared to custom in-house or legacy solutions

KEY NUMBERS

340

Vulnerabilities in 1st scan

69

Applications analyzed

135

Critical scans



Appknox was a good experience. We received the value for the money we spent, so overall it is a good product

- Chief Manager, Fortune 2000 consumer electronics leader

The Appknox advantage

Appknox is an enterprise-grade security platform that helps developers, security researchers, and enterprises build a safe and secure mobile ecosystem faster with automated security checks.

THE APPKNOX IMPACT

<90 mins

comprehensive automated VA

<1%

false negatives

8+

compliances



Trusted by Gartner, loved by enterprises

- ✓ Recognized in Gartner Peer Insights Voice of Customer
- ✓ Gartner Hype Cycle for Application Security
- ✓ Gartner Notable Vendor

Unleash the power of superior scalable security with Appknox today.

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