

# How a Top Financial Firm Scaled Its Application Security Program and Accelerated Digital Transformation

## Company overview

This Fortune 500 financial corporation is one of the 10 largest banks in the U.S. It needed to

- Ensure stronger application security for enterprise and consumer-facing applications
- Improve and meet regulatory compliance
- Reduce time and resources spent triaging false positives

*“We love the fact that Continuous Dynamic is production safe, [enables us to] do authenticated scanning, and above all that ALL of the findings are verified and we are 99% false positives—free.”*

—Application security manager

## Overview

Working on a transformational technology project under time and budget constraints, this innovative financial organization was building new applications to address the mobile banking and eBanking needs for its hundreds of thousands of customers. Operating in a sensitive and highly regulated financial industry, the organization’s security team also needed a proactive approach to security to protect sensitive customer and financial data.

## The challenges

The banking organization, which operates as a technology company, was searching for a best-in-class end-to-end AppSec solution provider to implement a robust application security program, and needed to quickly scale application security for hundreds of its applications. The company faced several challenges.

- **Scaling AppSec automation.** With 400+ developers and a handful of experts in application security, scaling its red teams and the entire application security portfolio was a big challenge. Modern banking applications powered by APIs exacerbated the problem.
- **Compliance.** The organization was struggling to achieve key regulatory compliance during annual audits. Since application security is a critical element for PCI compliance, it was apparent that its existing application security solution was not effective.
- **Triaging false positives.** Automated scanners were generating a lot of false positives, seriously impacting development processes, application security, and resource management. As a result, security teams were spending more hours verifying and cross-checking the findings than remediating actual vulnerabilities.

## The solution

Black Duck demonstrated that it provided the most comprehensive and industry-proven dynamic application security testing (DAST) solution. Black Duck® Continuous Dynamic can monitor and scan hundreds of applications in production 24/7 in a production-safe manner, and it provides the rich business logic assessment that the organization needed to confidently release its applications to its customers.

Given the size and complexity of the project, Black Duck proposed a comprehensive AppSec portfolio and later added Continuous Dynamic Auto API. The organization's application security team scaled its program with a suite of Black Duck solutions.

- **Continuous Dynamic.** Continuous Dynamic provides continuous scanning, a low false-positive rate, access to security experts, and reporting metrics that detail performance over time in discovered and remediated security vulnerabilities by criticality.
- **Business logic assessments.** Business logic assessments (BLAs) are manual assessments performed by Black Duck security engineers who look for application security vulnerabilities that cannot be tested for effectively by an automated solution.
- **Continuous Dynamic Auto API.** Continuous Dynamic Auto API provides highly scalable, accurate, and fully automated vulnerability scanning for web service APIs, and public-, private-, and internal-facing APIs.
- **Security testing services.** Services included designated program managers and support from subject matter experts who work with the organization's in-house team to scale its application security program.

## The results

A phased approach to implementing AppSec solutions into the organization's software development life cycle, and monitoring the right set of metrics resulted in a sustainable and scalable approach to implementing application security.

### Evolutionary change in application security

Unlimited DAST assessments enabled an accurate window into the true risk surface of the organization's hundreds of applications. Since Continuous Dynamic is designed for production-safe scanning, the security team was able to scale continuous risk assessments to hundreds of applications, saving time and cost without any downtime.

In addition, developer education and a direct feedback loop with Black Duck security experts has met the evolving needs of development teams.

### Improved quality of findings

One of the biggest challenges for this organization was dealing with a huge volume of AppSec findings and remediation tasks, which meant triaging a growing number of false positives. Continuous Dynamic proved to be an ideal solution as the organization's risk surface expanded with numerous interconnected applications. By discovering, categorizing, and prioritizing the biggest risks first, teams gained a strategic, targeted plan to address the most vulnerable apps in production.

Black Duck security experts reviewed scan configurations to ensure that the scan would accurately reflect the architecture and data boundaries of the application or platform being scanned. These verified vulnerabilities virtually eliminated false positives, which reduced resource costs. Above all, faster and more accurate security vulnerability identification and remediation improved overall application security and ROI.

### Achieving 100% compliance

A huge accomplishment for the organization was reaching and maintaining 100% PCI compliance. The team was able to maintain an inventory of applications, ensure on-time scans and BLAs, and provide regular metrics showing progress toward the goals.

*“Within six months of Black Duck onboarding, we were able to increase our PCI compliance from 40% to 100%.”*

—Application security manager

## Maximized AppSec ROI

By seamlessly scaling and adding program management to the scope of work, the Black Duck Security Testing Services team developed a close working relationship with the organization’s application security and the development teams. Regular collaboration with the teams ensured that vulnerabilities were remediated according to organizational security policies and best practices. The program managers developed measurable success criteria to track progress across the organization, including regular meeting cadences, quarterly program reviews, and annual service review meetings.

## Evolving scope

The Black Duck scope of work has evolved to include additional activities such as onboarding new users, integrating systems to automate manual processes within the AppSec team, severity contextualization, consulting on policy changes, and providing application security educational opportunities to development teams.

Black Duck has helped drive and support the successful creation and adoption of an application security program within this organization. Black Duck solutions empower customers with high-performing, measurable, scalable, and repeatable AppSec programs that are best suited to their requirements. Support from Black Duck security experts ensures that customers get highly accurate results and on-time remediation advice.

Black Duck is committed to helping customers keep their digital doors open. As a partner, we help organizations understand and assess their applications’ risk posture. This knowledge adds value and capacity to companies’ existing security teams, which increases confidence and peace of mind to focus on driving the future.

## About Black Duck

Black Duck® offers the most comprehensive, powerful, and trusted portfolio of application security solutions in the industry. We have an unmatched track record of helping organizations around the world secure their software quickly, integrate security efficiently in their development environments, and safely innovate with new technologies. As the recognized leaders, experts, and innovators in software security, Black Duck has everything you need to build trust in your software. Learn more at [www.blackduck.com](http://www.blackduck.com).

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