

## APPLICATION SECURITY ASSESSMENT SERVICES

Security Innovation offers a wide range of services that help organizations identify and remediate problems from an entire portfolio of enterprise applications; a single, stand-alone application; or from within the Software Development Lifecycle (SDLC) itself.

Our unique, proven methodologies and frameworks have helped organizations of many sizes realize qualitative and quantitative security assessment benefits at both the project and enterprise level.

## SOFTWARE SECURITY ASSESSMENTS

**ARCHITECTURE & DESIGN REVIEW**

Identifies weaknesses in the design, requirements and goals of the software system and provides mitigation recommendations. This ensures that mistakes are identified early before they propagate into numerous and expensive code vulnerabilities. At the end of the review, our experts provide a detailed Threat Model, a summary of all architectural issues, and a Risk Mitigation Plan.

**SECURITY CODE REVIEW**

Uses expert analysis to discover implementation-time vulnerabilities in your application code. Our team employs a combination of expert manual review and automated tools to uncover the highest risk flaws and provide remediation advice for coding errors. Code reviews can be executed against any application type (Web, mobile, embedded, client/server, etc) written in any coding language (.NET, Java, C/C++, PHP, ObjectiveC, etc.).

**APPLICATION PENETRATION TEST**

Using proven threat modeling techniques, our experts identify the highest risk areas of your application and test the avenues of attack that hackers are most likely to target. After testing is finished, we deliver a detailed final report that includes the complete threat model, test methodology, and detailed vulnerability information that includes steps to reproduce, severity rating, and prescriptive remediation guidance. This “black box” testing is appropriate for acceptance testing and post deployment analysis, and can be applied to any type of software application.

**OUR EXPERTS**

Each Security Innovation engineer brings a unique skill-set to the team, from a specific platform, technology, development language, industry standard, to security engineering activity. For each engagement, we match our expert(s) with the skills most needed for that assessment.

“The SDLC analysis and roadmap equipped us with the specific training, process improvement, and tools usage we needed to close critical gaps in our development process. This was a valuable investment.”

**Stan Black, CSO**  
Nuance Communications

### For each service, our experts will:

- Conduct thorough assessments using specialized tools and proven methodologies
- Leverage Threat & Risk Modeling techniques to target critical areas first
- Provide detailed remediation guidance to ensure problems are fixed correctly
- Educate your teams on secure software development techniques and root cause analysis

## ENTERPRISE APPLICATION RISK ASSESSMENTS



### SECURE SDLC GAP ANALYSIS & OPTIMIZATION

Our Security Team will assess your existing SDLC (Software Development Lifecycle) and identify key points within the process to integrate new or refine existing security activities. This yields a repeatable and efficient SDLC that incorporates security at each phase, streamlines activities, maps development activities to internal or compliance mandates, and improves tool usage for team members.



### APPLICATION PORTFOLIO RISK RANKING

This service offers visibility into the state of application security across your entire application portfolio. Combined with asset and application classification, our experts will identify and prioritize high-risk applications based on business impact, security threats, compliance mandates and operational risk. The result is a riskranking framework that allows you to better allocate your application security budget and resources.



### IT INFRASTRUCTURE ATTACK SIMULATION

Our security engineers will conduct attacks on your IT infrastructure to determine how data can be stolen or your system can be taken offline. This isn't just a network or application penetration test — we validate all identified vulnerabilities, follow chaining paths between vulnerable systems and disclose which hardware and software applications are putting you at risk.

"Security Innovation offers some of the best testing concepts I've seen."

**Michael Howard**