

Information Assurance

Software Assurance

Why does your organization need software assurance? All applications, operating systems, databases, routers, cell phones, intrusion detection systems, firewalls, and SCADA systems are implemented, at least in part, using software. Where there is software, there are software flaws.

- Do you worry that your critical software is vulnerable to hackers? Do you want to find those vulnerabilities before a hacker does and eliminate them?
- Have you experienced a security incident that was traced to faulty software? Do you want to prevent similar incidents in the future?
- Do you need proof of legal or regulatory security compliance?
- Do you want to find out whether your current software assurance or application security program is effective?
- Do you want to save time, money, and productivity lost to application downtime?
- Do you want to determine the level of security risk associated with your organization's faulty software?
- Do you need to demonstrate due diligence with regard to software assurance?

If you answered “yes” to any of these questions, you need software assurance.

The Booz Allen Advantage

Booz Allen Hamilton, a global strategy and technology consulting firm, has the technical expertise, depth, breadth of experience, and integrity to help you ensure the security of your critical software applications and software-intensive systems. Our world-renowned management practices, analytical and technological excellence, and devotion to client service ensure that our software assurance services are tailored to support your ongoing mission-essential operations and business goals. We offer the unique combination of:

- Client-driven task planning and management processes
- Comprehensive software risk assessment methodology
- Critical analyses of threats and vulnerabilities
- Software development expertise
- Software assurance measurement approach that seamlessly integrates with your existing measurement framework

Booz Allen's Approach to Software Assurance

Software assurance is a set of disciplined, security-aware principles and practices that guide and enhance the processes for developing, testing, deploying, and maintaining software. Software assurance injects “security awareness” into every phase of the software's life cycle, so that every choice in specifying, designing, coding, acquiring, testing, configuring, installing, and operating the software considers the security implications.

About Booz Allen

Booz Allen Hamilton has been at the forefront of management consulting for businesses and governments for more than 90 years. Providing consulting services in strategy, operations, organization and change, and information technology, Booz Allen is the one firm that helps clients solve their toughest problems, working by their side to help them achieve their missions. Booz Allen is committed to delivering results that endure.

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Information Assurance

Our approach to software assurance is multi-faceted and can be tailored to the needs of each organization. We offer vigorous security assessments, security-enhancement of software development life cycle (SDLC) processes, activities, and practices, implementation of application security techniques and mechanisms, software assurance measurement, and creation and support of organizational software assurance programs.

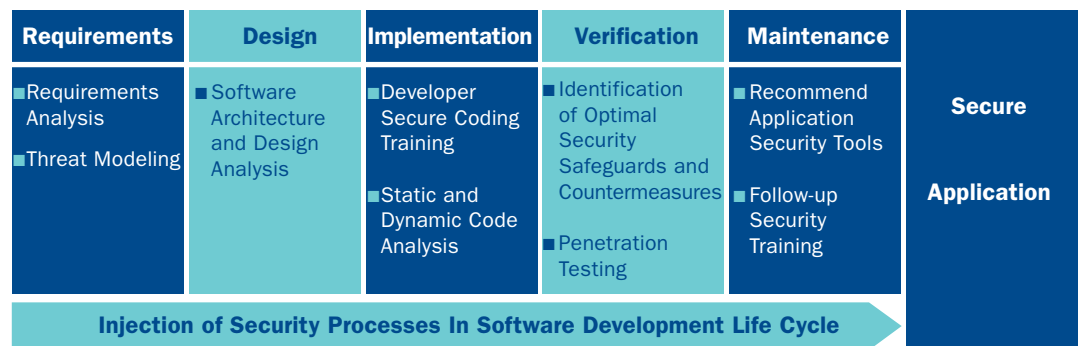


Figure 1—Security Enhancement of SDLC Processes

- Software Security Assessments**—We review the software architecture and design to identify security strengths and weaknesses. We perform static and dynamic analyses of source code using a combination of automated tools and manual verifications to flag the exploitable flaws, and provide mitigation strategies to eliminate as many as possible while minimizing the exploitability of any that remain.
- Security Enhancement of SDLC Processes**—Through our integrated approach of “injecting” security into the SDLC processes throughout the life cycle, we assist development teams in adapting and adopting practices to increase the security of the software that results.
- Application Security Safeguards and Countermeasures**—To enhance the security posture of our clients’ sensitive and critical applications, we identify the optimal combination of Web Application Firewalls (WAF), Virtual Machines, anti-malware solutions, and other application security safeguards and countermeasures needed to establish a seamless barrier between existing applications—including legacy applications—and potential threats.
- Organizational Software Assurance Program Support**—Our consultants can help your organization develop and establish its own software assurance program, whether the main concern is the security of software development, acquisition, or deployment. We train software developers in best practices to avoid or resist the majority of exploits. We also provide insight in evaluating and selecting development tools to support secure development, testing tools to support security code reviews and tests, and application security safeguards and countermeasures to aid in secure deployment. Finally, we help you develop specific measures to quantify software assurance effectiveness and performance and integrate these measures into your organization’s existing measurement programs and approaches with minimal impact on operations.