SYNOPSYS®

Build Trust in Your Software
Synopsys Solutions for Application Security

Software risk is business risk

Software is at the core of digital transformation, enabling you to create value for your customers in new, innovative ways. However, software introduces business risks that need to be managed proactively and at the same velocity as the software development itself. This places new demands on software security. Speed is imperative, which means that efficiency and productivity are no longer luxuries.

Intelligent risk management

Synopsys builds trust in software by enabling you to manage application security, quality, and compliance risks at the speed your business demands. Our next-generation application security (AppSec) solutions provide a comprehensive view of software risk wherever it resides across your portfolio, allowing you to go from reactive vulnerability response to proactive risk management and focus on what matters most to your organization.

Address software risk wherever it resides

To fully understand and mitigate your software risk, you need more than tools. By aligning people, processes, and technology in a comprehensive AppSec program, you can address security risks across your organization and at all stages of the application life cycle.

Synopsys offers industry-leading solutions and services to help you build and optimize your AppSec program.

- **Strategy and planning.** Build a strong foundation for your software security program, communicate security and quality requirements across teams, and measure the results that matter.
- **Threat and risk assessments.** Adopt an attacker's perspective to identify threats against your software and systems, and measure how well your organization could withstand a real-life attack.
- **Open source audits.** Assure the financial and reputational success of any M&A transaction with Black Duck® Audits, which can identify and assess open source and third-party components, licenses, and vulnerabilities.
- **Security training.** Develop the skills to create and maintain secure, high-quality software across every role in your development organization, with a variety of training methods that fit your learning goals and schedule.
- **Consulting.** Access hundreds of industry-leading experts to help you integrate quality and security best practices, tools, and strategies into your organization's unique technology stack.
- **Customer success.** Achieve your AppSec goals by tapping into our dedicated product experts, support teams, online resources, and global network of Synopsys customers.

Secure your software supply chain

Building software your users can trust requires you to secure everything that goes into it. Synopsys offers a comprehensive set of application security testing (AST) tools to detect security, quality, and compliance issues in proprietary code, open source and third-party dependencies, application behavior, and deployment configurations.

- **Software composition analysis.** Black Duck detects and manages open source and third-party component risks in development and production.
- **Static application security testing.** Coverity® identifies critical quality defects and security weaknesses in your proprietary code and infrastructure-as-code early in the software development life cycle, when it's least expensive to remediate.
- **Interactive analysis.** Seeker® discovers real, exploitable vulnerabilities in web-based applications during QA and other testing cycles, with near zero false positives.
- **Dynamic analysis.** Dynamic testing tools identify security vulnerabilities while web applications are running, without the need for source code.
- **Penetration testing.** Flexible and scalable on-demand testing performed by security experts, tailored to meet changing requirements and evolving threats.
- **Fuzz testing.** Defensics® finds security weaknesses and vulnerabilities in software and devices through flexible, scalable, automated negative testing that integrates into development workflows.
- **Binary analysis.** Black Duck Binary Analysis identifies open source included in container images beyond what is explicitly declared, so security and quality concerns can be identified and addressed.
- **API security analysis.** Synopsys API Scanner™ integrates developer-friendly dynamic application security testing for APIs into CI and bug-tracking tools, and minimizes the noise of false positives.
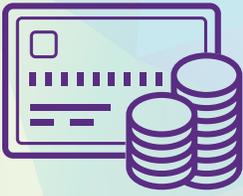
Deliver secure, high-quality code faster

Development velocity is key to business success. Your security and risk management efforts can't jeopardize time to market or compromise your digital transformation. You need to test software at the right time and at the right level, and then prioritize findings for remediation.

With Synopsys, you can leverage intelligent AST orchestration and correlation to help teams maintain DevOps velocity and focus remediation on the issues that matter most to your business.

- **Intelligent AST orchestration.** Intelligent Orchestration minimizes the impact to build and release pipelines by running only the necessary security tests only when needed.
- **Risk-based vulnerability correlation.** Code Dx® helps development teams address what matters most by aggregating and prioritizing test findings.
- **Optimized AST services.** No more bulky, siloed AST tools; these lightweight, fast-running services can be combined as needed based on the software being tested.
- **IDE-based analysis.** Static analysis and software composition analysis performed directly in the developer's environment—complete with remediation guidance and integrated e-learning—enable code that is secure as it is written, eliminating risk and driving productivity.
- **Comprehensive DevSecOps integrations.** Integrations readily incorporate software testing into DevOps toolchains, including source code management like GitHub and GitLab, binary repositories like Artifactory and Docker, workflow tools like Jira, and continuous integration like CloudBees and Jenkins.

To date, Synopsys, with a market cap over $15 billion, has invested over $1 billion into building the ultimate software security solution. We currently work with:

17 of the top 25
commercial banks

9 of the top 10
software companies

4 of the top 5
managed healthcare firms

3 of the top 4
U.S. wireless providers

Our mission is to help organizations build trust in software by managing application risks at the speed their business demands.

Only Synopsys offers the full spectrum of solutions and services in an open ecosystem

The Synopsys portfolio is unique in the industry. It combines leading tools, services, and expertise that empower organizations to optimize security, quality, and compliance in their software. We address the realities of testing software in today's business environment—where 70% of organizations use 11 or more testing tools—by enabling orchestration and correlation across any combination of our own products, third-party products, and open source products.

Synopsys is unique in our

- **Breadth of portfolio.** Synopsys has invested well over $1B to build the most comprehensive portfolio in the market. Only Synopsys has a full suite of AST tools combined with deep experience and the strength of a worldwide services organization.
- **Open approach.** Only Synopsys interoperates with other AST tools, enabling our customers to leverage their existing investments while adding new capabilities such as intelligent AST orchestration and correlation/prioritization.
- **Analyst validation.** Only Synopsys carries the Leader designation in all three analyst ratings for application security.
  - The Gartner Magic Quadrant for Application Security
  - The Forrester Wave™ for Static Application Security Testing
  - The Forrester Wave™ for Software Composition Analysis
- **Strength and stability.** Synopsys is an S&P 500 corporation with a 30-year history of fiscal responsibility and sustained growth. Our stability means you have a long-term partner in Synopsys.

The Synopsys difference

Synopsys provides integrated solutions that transform the way you build and deliver software, accelerating innovation while addressing business risk. Our unmatched expertise helps you plan and execute any security initiative. We offer the most comprehensive product portfolio in the market, and it interoperates with third-party and open source tools. This open, pragmatic approach empowers your organization to leverage existing investments in testing tools to build the security program that best meets your needs. With Synopsys, your developers can secure code as fast as they write it. Your development and DevSecOps teams can automate testing within development pipelines without compromising velocity. And your security teams can proactively manage risk and focus remediation efforts on what matters most to your organization. Only Synopsys offers everything you need to build trust in your software.

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