Build Trust in Your Software

Synopsys Solutions for Application Security
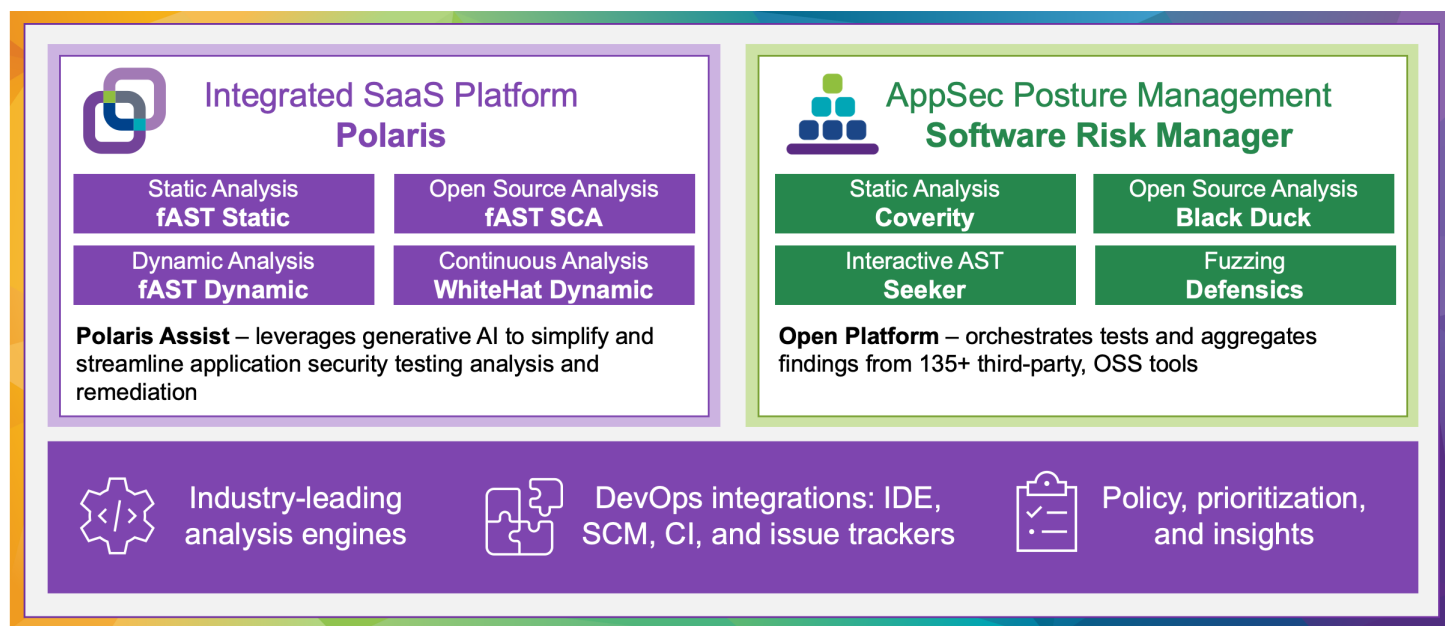
Software risk is business risk

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 at the same velocity as software development itself. This places new demands on software security. 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 across your portfolio, allowing you to proactively manage risk and focus on what matters most to your organization.

Leverage the industry's most comprehensive portfolio

Building trust requires you to secure everything that goes into your software. Synopsys offers the most 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. Whether delivered on premises or in a software-as-a-service (SaaS) model, each tool is the recognized market leader in its respective category, making Synopsys the natural choice for AST solutions.

- **Software composition analysis (SCA).** Polaris fAST SCA (SaaS) and Black Duck® (on premises) detect and manage open source and third-party component risks, and produce the Software Bill of Materials (SBOM) required for software supply chain initiatives and regulatory requirements. Black Duck uniquely identifies open source in container images and binaries, and it can identify snippets and other licensing issues created by AI code-generation tools.
- **Static application security testing (SAST).** Polaris fAST Static provides a SaaS solution that is readily integrated into development workflows. Coverity® provides on-premises support that extends coverage to critical quality defects and regulatory and compliance testing. Both solutions detect security weaknesses in your proprietary code and infrastructure-as-code files early in the software development life cycle, when it's least expensive to remediate.
- **Dynamic application security testing (DAST).** Polaris fAST Dynamic provides a SaaS-based, innovative take on preproduction dynamic analysis for modern development environments and languages. WhiteHat™ Dynamic safely and efficiently performs continuous dynamic analysis on production applications, testing software in the same state as attackers.
- **Application security posture management (ASPM).** Software Risk Manager creates a single version of truth for AST through a unified repository for the findings of over 135 testing solutions, delivering a centralized view of software risk for your organization: what was tested, what was found, and what was fixed. Software Risk Manager gives developers prioritized guidance on what to fix first, helping them make sense of the growing volume of findings.

Synopsys provides a complete AppSec portfolio to address your needs

Integrated SaaS Platform
Polaris

Static Analysis **fAST Static**	Open Source Analysis **fAST SCA**
Dynamic Analysis **fAST Dynamic**	Continuous Analysis **WhiteHat Dynamic**

Polaris Assist – leverages generative AI to simplify and streamline application security testing analysis and remediation

AppSec Posture Management
Software Risk Manager

Static Analysis **Coverity**	Open Source Analysis **Black Duck**
Interactive AST **Seeker**	Fuzzing **Defensics**

Open Platform – orchestrates tests and aggregates findings from 135+ third-party, OSS tools

Industry-leading analysis engines

DevOps integrations: IDE, SCM, CI, and issue trackers

Policy, prioritization, and insights

SYNOPSYS®

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. Synopsys goes beyond testing tools to help teams maintain DevOps velocity and focus remediation on the issues that matter most to your business.

- **No-compromise cloud-based AST.** Polaris Software Integrity Platform® provides fAST Static, fAST SCA , and fAST Dynamic, addressing the "essential three" AST testing types. Polaris makes it easy for developers to onboard and start scanning in minutes while enabling security teams to track and manage their AppSec testing activities and risks.
- **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.
- **The industry's only open platform.** Software Risk Manager unifies policy, orchestration, prioritization, and correlation for over 135 Synopsys, third-party, and open source tools. Synopsys enables organizations to utilize testing processes in place while facilitating transitions for those wishing to consolidate AST solutions.
- **Harness the power of Generative AI.** As applications become more complex, it is increasingly difficult to efficiently and effectively test for, analyze, and remediate security defects. Polaris Assist, our AI-powered application security assistant, combines insights from the Cybersecurity Research Center (CyRC) with a powerful large language model (LLM) to provide security and development teams with easy-to-understand summaries of detected vulnerabilities, AI-generated code fix recommendations, and other insights to help build secure software faster.

Beyond tools: experts to help you build trust

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 stands alone in offering industry-leading solutions and services to help you build and optimize your AppSec program.

- **Strategy and planning.** Build a strong foundation for your AppSec program, communicate security and quality requirements across teams, and measure key results.
- **Threat and risk assessments.** Adopt an attacker's perspective to identify threats against your software and systems, and measure your organization's attack readiness.
- **Open source audits.** Ensure 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 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.
- **Penetration testing.** Flexible and scalable on-demand testing performed by security experts, tailored to meet changing requirements and evolving threats.

Synopsys is the recognized AST leader, committed to the success of our customers.

We currently work with

49 of the Fortune 100 companies
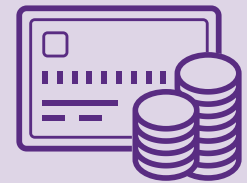
6 of the top 10 financial services companies

10 of the top 10 technology companies

6 of the top 10 healthcare companies

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

SYNOPSYS®

An open ecosystem to reduce complexity and improve AppSec risk posture

Organizations are increasingly looking for ways to reduce the complexity of their application security programs and improve their overall risk posture. In addition to the most comprehensive portfolio in the market, only Synopsys offers an open ecosystem that gives you the flexibility to interoperate with your existing third-party and open source tools. Our open, pragmatic approach provides a single source of truth with a comprehensive and actionable view of risk that empowers your organization to build the security program that best meets your needs.

- **Analyst validation.** Only Synopsys carries the Leader designation in all three analyst ratings for application security.
  - The Gartner® Magic Quadrant™ for Application Security Testing. A Leader for seven consecutive years, and farthest-right and highest for five consecutive years. Synopsys also ranks first in all five categories in Gartner's "Critical Capabilities for Application Security Testing" report.
  - The Forrester Wave™ for Static Application Security Testing.
  - The Forrester Wave™ for Software Composition Analysis.
- **Commitment to AppSec.** Synopsys has invested well over $2B 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.
- **Financial stability.** Synopsys is built to be your AST partner for the long term. We are growing above the market rate and are profitable while continuing to bring exciting innovations to the market.

Figure 1: Magic Quadrant for Application Security Testing

Synopsys has been a Leader in the Gartner® Magic Quadrant™ for Application Security Testing for seven consecutive years, and farthest-right and highest for five consecutive years.

Synopsys is your partner to help you build trust in your software

Synopsys provides integrated solutions that transform the way you build and deliver software, accelerating innovation while addressing business risk. 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. Our unmatched expertise helps you plan and execute any security initiative. Only Synopsys offers everything you need to build trust in your software.

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