Application Security Testing

Securing Software Built by Humans and Machines

2026 CONSTELLATION SHORTLIST

The Constellation ShortList™ presents vendors in different categories of the market relevant to early adopters. In addition, products included in this document meet the threshold criteria for this category as determined by Constellation Research.

This Constellation ShortList of vendors for a market category is compiled through conversations with early adopter clients, independent analysis and briefings with vendors and partners.

ABOUT THIS SHORTLIST

Application Security Testing (AST) has become a critical control as software development accelerates and applications grow more complex, distributed, and automated. Modern development pipelines rely heavily on open-source components, APIs, cloud-native services, and increasingly, AI-assisted code generation. These shifts have expanded the attack surface and introduced new classes of vulnerabilities that require continuous and integrated security testing throughout the software development lifecycle.

The widespread use of coding copilots and generative AI tools is changing how software is written and maintained. While these tools improve developer productivity, they can also introduce insecure patterns, hidden dependencies, and logic flaws at scale. In parallel, the emergence of agentic software, where applications make decisions, invoke tools, and interact autonomously with other systems, adds runtime behaviors that are difficult to assess through static analysis alone. As a result, AST platforms must evolve beyond point-in-time scans to support continuous, context-aware testing across code, dependencies, APIs, and runtime interactions.

Leading AST solutions now integrate deeply into CI/CD pipelines, developer workflows, and cloud-native environments. They combine static, dynamic, and composition analysis with automation, prioritization, and remediation guidance to help teams address risk earlier and more consistently. This ShortList reflects AST's transition from standalone testing tools to an essential layer of secure software delivery, supporting both traditional application development and the next generation of AI-enabled and agent-driven systems.

11 SOLUTIONS TO KNOW

Constellation evaluates more than 25 solutions categorized in this market. This Constellation ShortList is determined by client inquiries, partner conversations, customer references, vendor selection projects, market share and internal research.

- APIIRO
- BLACK DUCK
- CHECKMARX
- GITHUB
- GITLAB
- HCLSOFTWARE
- KODEM
- OPENTEXT
- SNYK
- SONATYPE
- VERACODE

LIKE WHAT YOU SEE?

Consider partnering with Constellation Research on your go-to-market-strategy. Email **ShortList@ContellationR.com** for more info.

To learn more about Constellation Research Shortlists visit: **www.constellationr.com/ShortList**

THRESHOLD CRITERIA

Constellation considers the following criteria for these solutions:

Core Capabilities

- **Static Application Security Testing (SAST)**
  Analyzes source code and build artifacts to identify security vulnerabilities early in the development process.
- **Dynamic Application Security Testing (DAST)**
  Tests running applications to identify vulnerabilities that manifest during runtime.
- **Software Composition Analysis (SCA)**
  Identifies security risks, licensing issues, and vulnerabilities in open-source and third-party dependencies.
- **API and service security testing**
  Detects vulnerabilities in APIs and service-to-service interactions that underpin modern and cloud-native applications.
- **CI/CD and developer workflow integration**
  Integrates into CI/CD pipelines, repositories, and developer tools to support continuous and automated testing.
- **Reporting and remediation guidance**
  Provides actionable findings, prioritization, and remediation recommendations tailored for developers and security teams.

Differentiated Capabilities

- **Support for AI-generated code and dependencies**
  Identifies insecure patterns, logic flaws, and dependency risks introduced through AI-assisted code generation.
- **Runtime-aware and behavior-based testing**
  Extends beyond static analysis to account for runtime behavior, dynamic inputs, and execution paths.
- **Contextual risk prioritization**
  Correlates findings with exploitability, application context, and business impact to reduce noise and alert fatigue.
- **Coverage for agentic and workflow-driven applications**
  Supports testing of applications that orchestrate tools, APIs, and external services through autonomous or semi-autonomous logic.
- **Automation and scalability for high-velocity development**
  Demonstrates the ability to operate at scale across large codebases, frequent releases, and distributed development teams.

BUSINESS THEMES

Digital Safety, Privacy and Cybersecurity

ABOUT CONSTELLATION RESEARCH

As an award-winning Silicon Valley-based strategic advisory and futurist analyst firm, Constellation Research serves leaders and organizations navigating the challenges of digital strategy, business-model disruption and digital transformation. Constellation works closely with solution providers, partners, C-suite executives, board of directors, and its Constellation Executive Network of buy-side leaders to lead the way in research coverage and advise clients how to achieve valuable business results.

FREQUENCY OF EVALUATION

Each Constellation ShortList is updated at least once per year. Updates may occur after six months if deemed necessary.

EVALUATION SERVICES

Constellation clients can work with the analyst and the research team to conduct a more thorough discussion of this ShortList. Constellation can also provide guidance in vendor selection and contract negotiation.

Chirag Mehta
VP & Principal Analyst

Chirag Mehta is Vice President and Principal Analyst focusing on cybersecurity, next-gen application development, and product-led growth. With over 25 years of experience, he has built, shipped, marketed, and sold successful enterprise SaaS products and solutions across startups, mid-size, and large companies. As a product leader overseeing engineering, product management, and design, he has consistently driven revenue growth and product innovation. He also held key leadership roles in product marketing, corporate strategy, ecosystem partnerships, and business development, leveraging his expertise to make a significant impact on various aspects of product success.