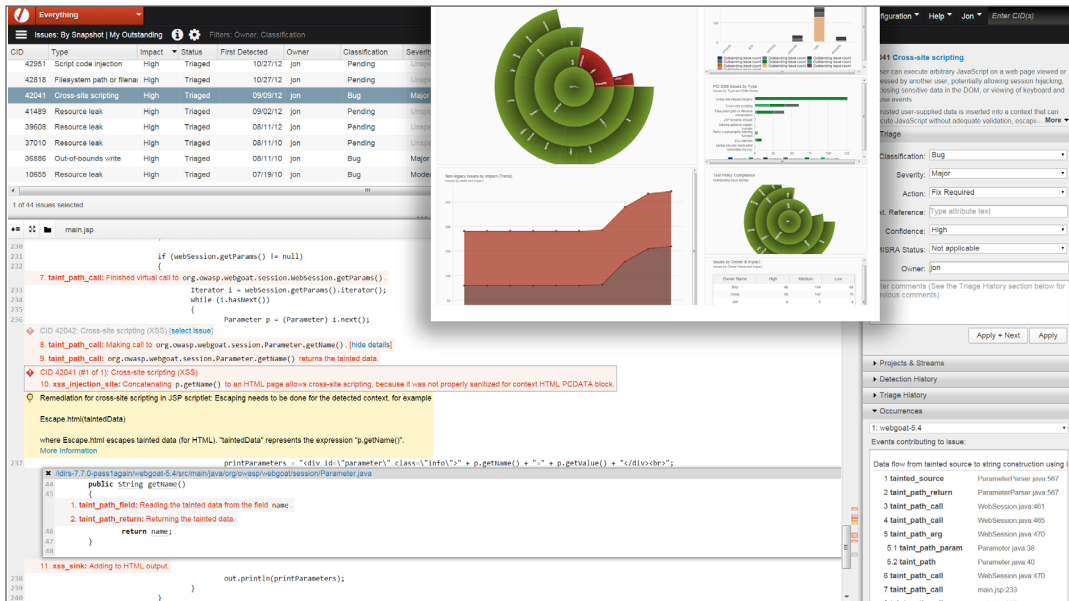


Coverity Enterprise Code Advisor

Coverity® Enterprise Code Advisor helps you reduce the cost and risk of software development. Automatically identify and manage highly relevant quality and security defects in the developer workflow. Improve visibility, predictability, management and release decisions.



ADDRESS QUALITY AND SECURITY AT THE SOURCE

- Identify and remediate critical defects:
 - OWASP Top 10 vulnerabilities.
 - Concurrency defects (deadlocks, race conditions, blocking misuse).
 - Leaks (memory, handles, other resources).
 - Crashes (null dereference, use-after-free, double free, improper allocation, mismatched array new/delete).
 - Incorrect program behavior (dead code, uninitialized variables, invalid use of negative variables, improper use of APIs).
- Understand what issues to address, where to find them and how to fix with precise and prescriptive remediation advice. No security expertise required.
- Evaluate projects, teams, vendors against consistent quality, security and testing standards using metrics that matter.

Developers quickly understand where problems exist and how to prioritize them. Actionable remediation guidance ensures problems are fixed completely. Sophisticated dashboards pinpoint areas of risk, focusing help where it is needed to ensure development stays on track.

Product Overview

Coverity® Enterprise Code Advisor empowers organizations to build testing into the development process at the earliest stage. Produce robust, secure software with visibility into where problems exist, which need to be addressed first and how to fix them. Resolve problems before they become security vulnerabilities, user complaints or maintenance headaches.

Define and enforce a consistent standard for code quality, security and testing across the organization and supply chain. Gain visibility into standards compliance at all levels and create stage gates based on objective criteria. Improve efficiency and predictability through better informed decisions.

Key Features

Best-of-Breed Analysis

Sophisticated source code analysis finds the most critical and relevant defects in highly complex code bases, leveraging patented techniques for scalable, deep and accurate issue detection such as interprocedural dataflow analysis, abstract interpretation, statistical analysis, design pattern intelligence, Boolean satisfiability solvers and false path pruning. Additional patented analysis techniques are used to ensure that every line of code and every potential execution path are tested.

Don't waste time chasing down false positives or other noise; fix relevant defects such as buffer overruns, null dereferences, race conditions, SQL injection, cross-site scripting and other OWASP Top 10 issues, copy/paste errors, resource leaks, API misuse and more.

Remediation Engine

Through a deep understanding of the application code, web frameworks and data contexts, Enterprise Code Advisor provides precise guidance about where and how to fix defects. Enterprise Code Advisor tracks dependency injection, entry points, Model-View-Controller (MVC) relationships and sanitization requirements so developers don't have to. Remediate defects faster, and "get it right the first time" even without deep security expertise..

Efficient Defect Management and Remediation

Enterprise Code Advisor includes Coverity Connect: an open, collaborative issue management platform for teams to efficiently manage all issues to resolution within a unified, consistent workflow. Easily prioritize, filter and view action items, including CWE mapping and knowledge base. Sophisticated source code navigation identifies specific code paths and defect conditions. Understand which projects and branches are affected by each defect. Stay focused on important problems with automated email alerts and SDLC integrations (see below).

Analysis Packs

Easily import results from your favorite third-party, open source or homegrown tools to manage them in the open Coverity platform.

Additional Enterprise Code Advisor analysis packs available:

- **Coverity Dynamic Analysis** identifies concurrency issues such as race conditions, deadlocks and resource leaks in multithreaded Java programs.
- **Coverity Architecture Analysis** helps you manage code complexity and maintainability by establishing and enforcing complexity and architectural rules.

Integration with the Developer Workflow

Enterprise Code Advisor integrates with existing SDLC tools to make software testing a natural part of the development process. Find and fix problems before check-in, at the desktop in your IDE, command-line build or script. Automate centralized analysis by integrating with your build or continuous integration system. Automatically map defects to code changes and responsible developers based on SCM history. Promote quality and security defects to your bug tracking system of record for wider visibility.

Management and Reporting

Establish centralized policies for quality, security and testing, and monitor compliance in real time throughout the development process. Flexible metrics, charts and reports facilitate communication and compliance with standards and guidelines such as MISRA, OWASP Top 10, FDA and PCI-DSS.

Supported Languages

C/C++, C#, Java, JavaScript, Objective-C/C++

Supported Platforms

C/C++

Platform Support	Compiler Support	IDE Support
<ul style="list-style-type: none"> • AIX • FreeBSD • HP-UX • Linux • Mac OS X • NetBSD • Solaris • Windows 	<ul style="list-style-type: none"> • GNU GCC, G++ • Visual Studio • Clang, Xcode • HP, IBM, Intel, Sun/Oracle • Synopsys Metaware • Green Hills, Wind River • ARM, Freescale, Renesas, TI • SNC, Xbox • And many others 	<ul style="list-style-type: none"> • Eclipse • ARM Development Studio 5 (DS-5) • IBM Rational Team Concert • Microsoft Visual Studio • QNX Momentics • Wind River Workbench

C#

Platform Support	Compiler Support	IDE Support
<ul style="list-style-type: none"> • Windows 	<ul style="list-style-type: none"> • Microsoft 	<ul style="list-style-type: none"> • Microsoft Visual Studio

Java

Platform Support	Compiler Support	IDE Support
<ul style="list-style-type: none"> • Linux • Mac OS X • Solaris • Windows 	<ul style="list-style-type: none"> • Oracle/Sun JDK (except JRockit) • Apple/OS X JDK • Others (with integration) 	<ul style="list-style-type: none"> • Eclipse • IBM Rational Team Concert • IntelliJ IDEA^a

JavaScript

Platform Support	Compiler Support	IDE Support ^b
<ul style="list-style-type: none"> • Linux • Mac OS X • Windows 	<ul style="list-style-type: none"> • Not applicable 	<ul style="list-style-type: none"> • Eclipse • IBM Rational Team Concert • Microsoft Visual Studio • IntelliJ IDEA

Objective-C/C++

Platform Support	Compiler Support	IDE Support
<ul style="list-style-type: none"> • FreeBSD v9.1+ • Linux • Mac OS X • Windows 	<ul style="list-style-type: none"> • Clang 	<ul style="list-style-type: none"> • Not applicable

Coverity Connect

Server Platform Support	Browser Support
<ul style="list-style-type: none"> • Linux • Solaris • Windows 	<ul style="list-style-type: none"> • Internet Explorer 8, 9, 10 and 11 • Firefox: Mozilla supported versions • Google Chrome: Google supported versions • Safari 6 or later

^a IntelliJ IDEA support includes viewing and triaging issues in the IDE, but not desktop analysis

^b JavaScript support includes viewing and triaging issues in the IDE, but not desktop analysis



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