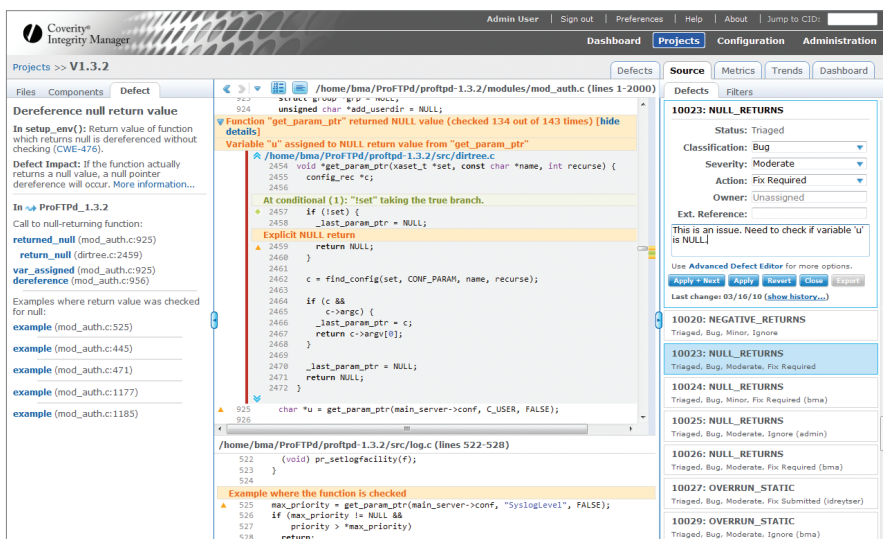


Coverity® Static Analysis

Coverity Static Analysis helps increase developer productivity by finding and helping fix defects faster, increasing visibility into defect history within and across projects to stay on-schedule and make better fix/no fix decisions, and reducing the risk of product quality issues in the field.



Defects Found Using Coverity Static Analysis

- **Concurrency issues** such as deadlocks, race conditions and blocking call misuse
- **Performance Degradation** problems due to memory leaks, file handle leaks, custom memory and network resource leaks, database connection leaks
- **Crash-causing errors** such as null pointer dereference, use-after-free, double free, improper memory allocations and mismatched array new/delete
- **Incorrect Program Behavior** caused by deadcode, uninitialized variables, Invalid use of negative variables
- **Improper Use of APIs** with STL usage errors
- **Security vulnerabilities** due to buffer overflows, insufficient validation, etc.

Understand the severity and impact of a defect on the projects and the products that share code to make better decisions on which defects to fix first.

Key Features

Best of Breed Analysis

Sophisticated techniques such as interprocedural analysis, statistical analysis and Boolean satisfiability (SAT), allows developers to quickly find quality, safety and security defects in complex code.

Intuitive Information

View defect severity, potential impact and location.

Software Integrity Report

Gain visibility into the quality, safety and security of internally developed and third party provided code streams to measure project health, track trends, and address issues with suppliers.

Code Components Mapping

Break up large codebases into logical parts according to directories, libraries, developers and groups which allows automatic defect assignment and prioritization of code areas with high defect density.

Defect Reporting

Evaluate and measure defect history and resolution status at the branch or project level, and across projects to make release decisions, measure productivity and quality trends.

Ease of Use & Workflow Integration

Integrate CSA into the existing development workflow. Analyze, triage, and repair defects prior to checking in code or as part of a continuous

build process. CSA's adaptable open architecture allows integration into existing source control and bug tracking systems.

Flexibility, Performance and Scale

Fine tune the analysis by adding custom checkers that are unique to your code and important to your organization.

CSA is designed for large, complex codebases (10 million+ lines of code), and hundreds of concurrent users with no impact on the central build environment, user administration, and processes.

Supported Environments

Coverity Static Analysis for C/C++			
Supported Platforms	Supported Compilers	Supported IDEs	System Requirements
<ul style="list-style-type: none"> • Windows • Linux • Solaris • HPUX • Mac OS X • FreeBSD • NetBSD 	<ul style="list-style-type: none"> • GNU gcc, g++ • Microsoft Visual C++ • ARM • Wind River • Green Hills • Freescale/Nokia CodeWarrior • IAR • HI-TECH PICC • Intel C/C++ • HPUX aCC • Marvell MSA • Cosmic Compiler for Freescale • Renesas H8S, H8, M16C, M23C, M23R 	<ul style="list-style-type: none"> • Eclipse 3.3 and later • Microsoft Visual Studio 2005 • Microsoft Visual Studio 2008 • Microsoft Visual Studio 2010 	<ul style="list-style-type: none"> • 1 GHz CPU • 1 GB of RAM minimum, 2 GB recommended • 1 GB of free hard disk space
Coverity Static Analysis for C#			
Supported Platforms	Supported IDEs	System Requirements	
<ul style="list-style-type: none"> • Windows 	<ul style="list-style-type: none"> • Visual Studio (.NET) 2005, 2008, 2010 	<ul style="list-style-type: none"> • 1 GHz CPU (x86 or SPARC) • 1 GB of RAM minimum, 2 GB recommended • 1 GB of free hard disk space 	
Coverity Static Analysis for Java			
Supported Platforms	Supported IDEs	System Requirements	
<ul style="list-style-type: none"> • Windows • Linux • Solaris • Mac OS X 	<ul style="list-style-type: none"> • Eclipse 3.3 and later 	<ul style="list-style-type: none"> • 1 GHz CPU (x86 or SPARC) • 1 GB of RAM minimum, 2 GB recommended • 1 GB of free hard disk space 	
Coverity Integrity Manager Browser Support			
Browser	Flash		
<ul style="list-style-type: none"> • Internet Explorer 7, 8 • Firefox 3.5 	<ul style="list-style-type: none"> • Flash 10 with JavaScript enabled 		

For More Information:
sales@coverity.com

Coverity Inc. Headquarters
185 Berry Street, Suite 1600
San Francisco, CA 94107 USA

U.S. Sales: (800) 873-8193
International Sales: +1 (415) 321-5237
www.coverity.com

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