

# CODESONAR® for Java

## Eliminate defects and vulnerabilities with static analysis

CodeSonar provides a unified interface for analyzing C, C++, and Java source code.

### Improve Quality and Security

CodeSonar for Java flags defects and vulnerabilities automatically. It works seamlessly with CodeSonar for C/C++, allowing developers to analyze code written in multiple languages and manage warnings in a single location.

### Visualize Quality Trends

While CodeSonar is focused on finding critical defects, it also provides information about quality trends and code-level metrics. Graphs display defect data to show trends and help manage development and testing efforts. Standard metrics, such as cyclomatic complexity, are displayed, and you can also augment the standard metrics by creating your own custom metrics.

### Automate Workflow

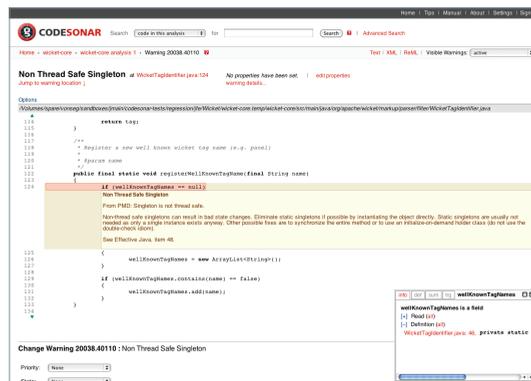
CodeSonar provides facilities to help users work with warning reports in a streamlined and coordinated way. Warnings can be annotated or suppressed without modifying the code. Users are also able to leverage CodeSonar's numerous workflow automation features, such as the automatic assignment of a warning to the developer that made relevant modifications. Warnings generated by CodeSonar can be exported in XML or text format, and results calculated by other tools can be imported. A Python API supports integrations.

### About GrammaTech

Since its inception as a spin-off of Cornell University, GrammaTech has focused on providing static analysis for applications where reliability and security are paramount. Our staff includes fifteen PhD-level experts in static analysis and a superb engineering team, all focused on creating the most innovative and in-depth analysis algorithms. Our customers create software for avionics, medical, industrial control, and other mission-critical applications.

### Leverage FindBugs™ and PMD

CodeSonar for Java works with the popular open-source Java static-analysis engines FindBugs™ and PMD, which are provided at no additional cost. Results calculated by FindBugs™ and PMD are automatically imported into CodeSonar, where developers can use CodeSonar's superb warning management infrastructure and reporting.



Example of a CodeSonar warning.

### Types of Errors Checked

- Programming errors
- Bad practices
- Internationalization problems
- Security vulnerabilities
- Concurrency problems
- Performance problems

### Technical Highlights

- Management-level reports
- Browser-based user interface
- Warning management
- Integration with other tools
- Easy setup requires no changes to build environment

### Free Trial

GrammaTech provides a cost-free means to evaluate CodeSonar on your own code so you can compare the results with those reported by other vendors.

Request an evaluation copy at: [www.grammatech.com/free\\_trial](http://www.grammatech.com/free_trial)

Note: See separate datasheet for more information about CodeSonar for C/C++

**Verifysoft TECHNOLOGY**  
**Verifysoft Technology GmbH**  
 In der Spoeck 10-12  
 77656 Offenburg (Germany)  
 Phone: +49 781 127 8118-0  
 Web: [www.verifysoft.com](http://www.verifysoft.com)



**GrammaTech, Inc.**  
 531 Esty Street  
 Ithaca, NY 14850  
 Phone: 607.273.7340  
 Web: [www.grammatech.com](http://www.grammatech.com)

FindBugs is a trademark of the University of Maryland. CodeSonar is a registered trademark of GrammaTech, Inc.