



Klocwork Solo for Java

Proven Java source code analysis for the individual web and mobile application developer.

Enterprise-proven source code analysis is now available as a standalone developer desktop tool with Klocwork Solo. For Java developers focused on mobile or web application development, Klocwork Solo helps find and fix bugs and security vulnerabilities that are critical to creating cleaner, more secure mobile and web application code.

Free Product Trial

A fully functional, 30-day free trial of Klocwork Solo for Java is available for download at: www.klocwork.com/Solo

// SOURCE CODE ANALYSIS FOR WEB AND MOBILE DEVELOPMENT

With Klocwork Solo for Java, developers focused on mobile software development or web application development can find critical bugs and security vulnerabilities in their source code quickly and accurately. More specifically, Klocwork Solo provides Java developers with:

- » Automated detection of over 200 different security vulnerabilities and quality defects without the need to run or generate test cases.
- » Ability to identify issues specific to Android mobile software development, including a range of issues that can cause runtime failures.
- » Persistent analysis results which allow for tracking of issues over time, thus maximizing productivity.
- » Complete integration with the Eclipse IDE including issue traceback in the source code.

Mobile Developers: Find Android-specific issues

With the growth of the mobile application development community comes the requirement for debugging tools that can support the unique requirements of Android application

developers. In addition to the hundreds of different defects and security vulnerabilities Klocwork can find in Java source code, Klocwork Solo offers a set of customized defect checkers that identify issues specific to Android mobile device development. These Android checkers understand Android's unique API calls and detect a range of issues that can cause runtime failures, such as null object references, resource leaks, and usage of already freed resources. All issues which are critical to the reliability of mobile devices.

Web Application Developers: Remove security vulnerabilities

Web applications are a constant target for hackers who seek to damage a company's brand, steal their data, and generally disrupt their business activities. That's why it's critical that software developers have accurate, easy-to-use tools to help them identify potentially exploitable weaknesses in their code. Klocwork Solo automatically looks for hundreds of different defects and security vulnerabilities in Java source code, including:

- » Cross Site Scripting (XSS) vulnerabilities
- » Injection flaws (SQL, process, path, etc.)
- » NULL pointer exceptions

- » Resource leaks and resource lifetime management
- » Unvalidated inputs

Most of these weaknesses are related to the propagation of tainted data, where input from a user or another process is used without rigorous validation of its format, its range, or whatever else might make sense for the data type in question.

// CREATE CLEANER, MORE SECURE CODE

Klocwork Solo for Java is superior to other automated source code analysis tools, and offers the following important features to ensure you output the highest quality Java code.

Fast, accurate analysis

Klocwork Solo provides fast, accurate source code analysis with low false positive results. To provide fast results, Klocwork uses incremental analysis to quickly review only the changed files and files affected by the changes (after the initial analysis has been performed). Additionally, Klocwork Solo's analysis results are persistent, allowing developers to see newly introduced issues and not waste time on issues that have already been investigated.

IDE Integration

Klocwork Solo uses the Eclipse Plug-in framework to fully integrate with the Eclipse Java IDE. Supported versions include 3.2, 3.3 and 3.4. Additionally, Klocwork Solo supports IBM Rational Application Developer, version 7.x.

Customizable

With Klocwork Solo, you can customize the code analysis to suit your needs. Modify specific defect parameters to focus on the errors you want to find and to reduce the detection of errors you aren't interested in. Change sources (defect start points), sinks (defect end points), propagations (defect escape points) and threshold values to meet your specific requirements. Project-level customization allows you to detect different types of issues for each project in your workspace, and by importing/exporting your settings files you can share your customization settings with other Klocwork Solo users.

// TECHNICAL SPECIFICATIONS

Hardware Platform Support (Processor)

Windows x86 (32 bit and 64)

- » Windows Server 2003
- » Windows XP Professional
- » Windows Vista

IDE Support

Eclipse

- » Version 3.2, 3.3 and 3.4

IBM Rational Application Developer

- » Version 7.x

Java Support

JDK (includes support for J2EE, J2SE, and J2ME frameworks)

- » Version 1.5 and 1.6

// PRICE

Klocwork Solo for Java is available on an annual subscription basis at \$299US per user.

// ABOUT KLOCWORK

Klocwork is an enterprise software company providing automated static analysis products that automate security vulnerability and quality risk assessment, remediation and measurement for C, C++, Java, and C# software. Over 500 organizations have integrated Klocwork's automated source code analysis tools into their development process, thereby:

- » Reducing risk by assuring their code is free of mission-critical flaws
- » Reducing cost by catching issues early in the development cycle
- » Freeing developers to focus on what they do best - innovate

Klocwork's focus on customer success is validated by a growing roster of satisfied customers and recognition from the industry; Klocwork won InfoWorld's 2007 Technology of the Year Award in the Application Development category, and has been named to the SD Times 100 for four consecutive years.