

Natural Engineer

REDUCE MAINTENANCE EFFORTS BY UP TO 90 PERCENT

Maintaining applications takes less time with Natural Engineer. That's because Natural Engineer provides automated application inventory, documentation, code analysis and modification tools.

Maintenance can consume up to 75 percent of your application development budget. So simplify how you optimize and change application code. Use Natural Engineer to restructure source code, improving its quality and reducing maintenance.

Using Natural Engineer, you can:

- Decrease maintenance efforts up to 90 percent
- Improve application maintainability with automated refactoring* and code changes
- Eliminate dead, inefficient and nonstandard code to optimize applications
- Re-use mainframe applications in new self-service environments
- Move to a Service-Oriented Architecture (SOA) more easily by simplifying the application-code change process

HOW IT WORKS

Understanding application logic and interdependencies is now virtually effortless. With Natural Engineer, you can analyze Natural, COBOL and JCL code automatically and also scrub bad or redundant code. You can automate individual changes and pre-coded solutions to eliminate repetitive manual code changes. What's more, you can easily transform single applications into multi-tier or service-oriented applications, or modify an application for an SOA without changing its external behavior.

A repository serves as a single source of enterprise-wide application information, so you'll have an accurate, fully documented description of all application code—complete with online cross-reference data. You can initiate automatic re-synchronization of repository data at intervals you define to ensure the repository always reflects any code modifications.

Because Natural Engineer uses Adabas as its repository, it can run on z/OS, z/VSA and BS2000 mainframe environments as well as the latest Microsoft Windows releases and Sun Solaris. You can use Natural Engineer in an all-mainframe environment, a standalone PC configuration or a combination of the two.



Natural Engineer uses Microsoft Silverlight technology to deliver a highly productive user experience.

FEATURE	WHAT IT IS ...	WHY YOU CARE ...
Reports in Microsoft Silverlight technology	<ul style="list-style-type: none"> • Gives you a leading-edge, time-saving Graphical User Interface (GUI) • Re-uses existing data from Natural Engineer repository 	<ul style="list-style-type: none"> • Save time with a highly productive GUI and well-structure, graphical views of Natural Engineer information
Automated analysis and remediation	<ul style="list-style-type: none"> • Searches for statements and/or data elements (e.g., variables, field in a database view) by name, type, using wildcards and defined exclusions • Saves search criteria for future re-use • Tracks "impacts" across object and application boundaries, identifying affected elements • Supports user-defined changes across programs • Allows manual repository update with data on the links between objects when no hard-coded call name is specified 	<ul style="list-style-type: none"> • Accurately estimate the impact of changes • Complete application-wide analysis and remediation—faster • Enforce individual coding standards as well as specialized remediation • Increase quality by ensuring relationship between objects is not interrupted due to dynamic names
Automated code optimization	<ul style="list-style-type: none"> • Removes dead, redundant and duplicate code without impacting system stability • Leaves behind fully functioning live code 	<ul style="list-style-type: none"> • Reduce complexity of application code • Slash modernization costs by avoiding transitions of unneeded code
Integration into Natural for Windows	<ul style="list-style-type: none"> • Allows access to Natural source-code libraries on remote server in mainframe and open systems environments • Offers one repository with all inventory data 	<ul style="list-style-type: none"> • Analyze and remediate applications faster • Reduce overhead with one data view for the whole development team
Overall view of JCL	<ul style="list-style-type: none"> • Displays your organization's JCL in a single view 	<ul style="list-style-type: none"> • Save time when all JCL inventory is in one place
Convert Natural statements to "Natural for AJAX" statements	<ul style="list-style-type: none"> • Identifies source code to modify • Supports modification with a high level of automation 	<ul style="list-style-type: none"> • Increase quality by identifying all application impacts • Save time with automated conversion
CICS support	<ul style="list-style-type: none"> • Analyzes CICS System Definition (CSD) file for information like transactions, programs and files and then shows this information in a global view in the Natural Engineer site workspace • Keeps you informed of all relationships between CICS assets and the Natural application 	<ul style="list-style-type: none"> • Save time because you don't have to search in different locations using separate tools

GET THERE FASTER WITH NATURAL ENGINEER

Decrease maintenance time and costs

Reduce maintenance efforts by up to 90 percent and gain more time for new development. See the impact of any changes you've made to your Natural applications. Quickly drill down through hierarchies and objects to identify the precise location and reason for a particular impact. There's no need for time-consuming batch processes and limited scanning and editing tools.

Meet new business needs

Easily transform single applications into multi-tier or service-oriented applications. Enhance existing applications with Web or service-oriented capabilities to provide the online services your customers demand.

Increase service quality

Natural Engineer automatically applies standards definitions to application source code. The consistent appearance of your code will ensure that even novice developers can quickly understand the logic and processes. You also can preview, audit and track changes to ensure application-wide consistency.

Improve planning

Accurately estimate the total impact and cost of proposed changes. Natural Engineer offers a full range of impact analyses. Predefined search criteria let you create and refine search criteria for specific application modifications. You'll have a complete picture of what needs to be modified across all applications and objects.

**You can obtain Natural Engineer Refactoring today as an add-on product for Natural Engineer. For Natural refactoring projects, we recommend using Software AG Global Consulting Services.*

To find the Software AG office nearest you, please visit www.SoftwareAG.com

ABOUT SOFTWARE AG

Software AG's 4,000 global customers use our software to improve business processes and drive an agile IT infrastructure. Our customers' goals are to reduce costs and increase flexibility and efficiency. We help them do this by optimizing and governing their operations and aligning IT with the business goals.

Our leading Business Infrastructure Software portfolio is used for data and system integration and modernization. It fosters new levels of IT agility through SOA and allows the rapid creation of new business processes with BPM.

Our 40-year history of success ensures our customers have a reliable platform for driving future business results – faster.

Software AG – Get There Faster

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