



Natural

APPLICATION DEVELOPMENT MADE FASTER – GAIN A POWERFUL COMPETITIVE ADVANTAGE

Natural is an application development and deployment environment known for ease-of-use, cross-platform portability and unmatched developer productivity.

Growing backlog requests for enhancements and new applications often plague development teams. They need tools that are easy to use and result in accelerated time to deployment. With Natural for Mainframe v.4 and Natural for Open Systems v.6, it's possible to develop applications 50% faster while increasing quality and meeting your business users' needs more quickly.

Designed for simplicity, reliability and speed, Natural is based on powerful new application development tools. Support for the Eclipse-based development environment means even recent university graduates or developers new to Natural can quickly become productive. Additionally, you can bring your Java and Natural projects into a single collaborative environment.

Extensions to Natural's syntax make it simple to quickly build new Rich Internet Applications that look and perform like robust desktop applications. And, with Natural's powerful modeling and code generation capabilities, you can develop and deploy Web services for use in a service-oriented architecture and seamlessly integrate Natural applications with Java and .NET applications.

To tackle the challenge of a growing maintenance backlog, Natural includes application inventory and documentation, code analysis and modification tools. Using these automated tools, you can decrease application maintenance efforts up to 90%.

Natural supports mainframe, Linux, UNIX and Windows platforms.

"The ease-of-use of Natural for a single point of development has increased the productivity of our developers. Also, the ease of implementing third-party products into the Natural environment has been a benefit to our organization."

- Mark Sinnott, Hibernian General Insurance, Ireland

NATURAL PRODUCTIVITY PACKAGE OVERVIEW

Save money and increase productivity

Depending on your development and organizational needs, you can choose from four Natural Productivity Package editions: Community, Standard, Professional and Enterprise. Each edition ensures you increase productivity with Natural's easy-to-use application development and deployment environments while ensuring you get the most value for your money through developer-based licensing. The Natural Development Server is a basic component of all Natural Productivity Package editions except the Community Edition.

- With the **FREE Community Edition** you can conduct a trial run to see how easily you can build applications with Natural for Windows.
- The **Standard Edition** includes Natural for Windows and provides a complete Natural development studio for remotely developing and maintaining applications on any platform from the Windows desktop.
- The **Professional Edition** includes Natural for Eclipse – ideal for organizations that want a single application development environment for their programming needs. You will improve developer collaboration using a single open-source development environment for Java and Natural.
- The **Enterprise Edition** provides comprehensive features for rapidly building service-oriented Web applications. Natural Business Services is included in this edition to help you reduce costs by rapidly generating Web services for reuse.

NATURAL HIGHLIGHTS

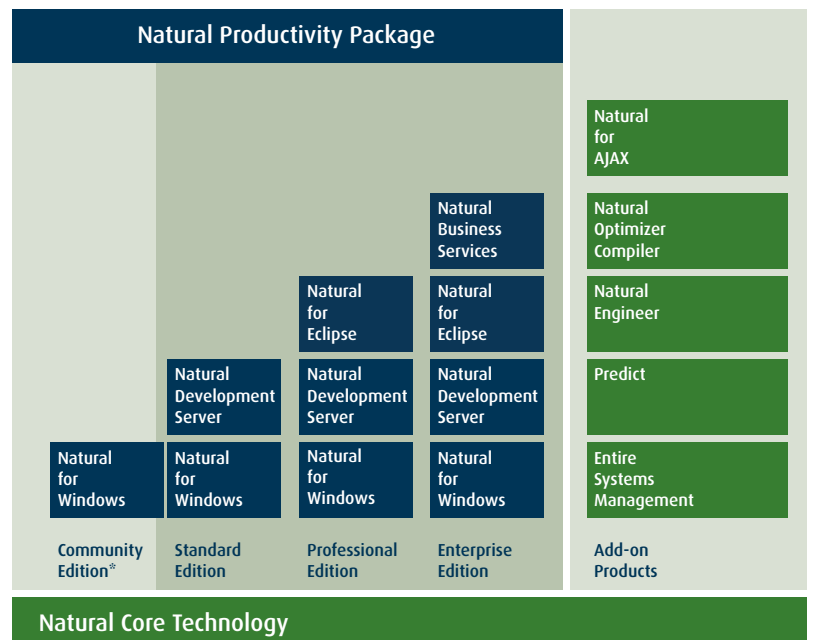
- Stay competitive by quickly building reliable Web-based business applications – and extending existing ones – for an SOA. Make your IT staff and clients happy by providing rich-client functionality in a standard Web browser without proprietary clients, runtime engines or plug-ins. Make your enterprise more agile by integrating your Java, .NET and Natural applications.
- Remotely build, test, debug and maintain your applications from a GUI-based, single point of development environment and deploy on all platforms (mainframe, UNIX, Linux and Windows). Your developers won't need to learn new tools to develop for various targets, which means you'll spend less time training and more time being productive.
- Restructure and optimize source code. You can automatically scrub bad or redundant code and implement pre-coded solutions and changes for better quality applications and reduced maintenance costs. You will also save programming time by understanding and analyzing Natural, COBOL and JCL. Natural provides the ability to transform single applications into multi-tier or service-oriented applications.

- Unify Natural and Java development projects into a single open-source Eclipse environment. The development interface is directly integrated into the Eclipse framework, which makes it easy for Natural and Java developers to collaborate.

VALUE-ADD PRODUCTS ADDRESS CRITICAL IT CHALLENGES

Natural adapts to your needs with a comprehensive set of powerful, add-on development tools that provide even greater functionality to your application development environment so you can:

- Decrease development time for new business functions
- Reduce application maintenance effort
- Improve mainframe application performance
- Reduce the cost to manage transactions
- Reduce the complexity of securing Natural applications
- Improve access to non-Adabas databases



NOTE: Additional add-on products are available

*The Community Edition is a free download for developers to learn the power of Natural for Windows

Decrease development time for new business functions

- **Natural for Windows**

Simplifies application development with a GUI-based environment that connects through the Natural Development Server to deploy and maintain applications in any runtime environment.

- **Natural for Eclipse**

Offers a single point of development from the open-source Eclipse platform to improve developer productivity, reduce development and maintenance costs, and unify Java and Natural developers to achieve common goals.

- **Natural Development Server**

Enables developers to work in a state-of-the-art development environment – available through Natural for Windows or Natural for Eclipse – while developing applications for any target platform

(mainframe, UNIX, Linux or Windows). This single point of development approach is proven to increase productivity up to 75%.

- **Natural Business Services**

Allows developers to create new Natural services up to 90% faster with a model-based development environment. It generates Web services in addition to Java or .NET programs, for use in an SOA.

- **Natural for AJAX**

Supports creation of new AJAX-based Web applications and modernization of existing Natural applications without restructuring source code. Natural developers can build Rich Internet Applications (RIAs) using the Natural-style syntax they know. No training or experience is required in JavaScript, HTML or Cascading Style Sheets (CSS). More than 50 out-of-the-box GUI controls and a WYSIWYG layout editor speed up development.

Reduce application maintenance effort

- **Natural Engineer**

Decreases application maintenance efforts up to 90% with automated application inventory, documentation, code analysis and modification tools. An add-on for refactoring automates the analysis, structuring and streamlining of Natural applications for reuse within an SOA and enables rapid development of new modern applications.

- **Predict Application Control**

Is a flexible tool for application versioning that ensures a 100% controlled and secured transfer of applications and updates into production while supporting compliancy standards, such as Sarbanes-Oxley and IT Infrastructure Library (ITIL). Supports Natural and foreign objects (e.g., COBOL).

	Mainframe					Open Systems					
	z/OS	z/VSE	z/VM	MSP	BS2000/OSD	X86 Linux	zLinux	AIX	HP-UX	Solaris	Windows
Natural	+	+	+	+	+	+	+	+	+	+	+
Com-plete	+	+									
Entire Access	+					+	+	+	+	+	+
Entire Connection											+
Entire Systems Management	+	+			+	+	+	+	+	+	
Natural Business Services	+	+			+	+	+	+	+	+	
Natural Development Server	+	+	+		+	+	+	+	+	+	+
Natural Engineer	+	+			+						+
Natural for AJAX – deployment platforms	+	+	+		+	+	+	+	+	+	+
Natural for DB2	+	+	+								
Natural for Eclipse						+					+
Natural for Tamino						+	+	+	+	+	+
Natural for Windows											+
Natural Optimizer Compiler	+	+	+	+	+						
Natural Review	+	+									
Natural SAF Security	+										
Natural Security	+	+	+	+	+	+	+	+	+	+	+
Predict	+	+	+	+	+	+	+	+	+	+	+
Predict Application Control	+	+		+	+						

Natural Platform Support

- **Predict**

Reduces application development and maintenance efforts by up to 50%. A central dictionary maintains all development artifacts to provide services like the automatic generation of database tables and program cross-references.

Improve mainframe application performance

- **Natural Optimizer Compiler**

Provides performance improvements up to 50% by compiling various Natural statements and sequences of statements to machine code, which is faster to process. It provides direct access to operating system information and system services (e.g., data sets, console or batch jobs), eliminating the need for additional coding to access these resources.

- **Natural Review**

Provides a set of tools for monitoring the performance and user activities of Natural applications running under CICS. This allows administrators to identify areas of the application to optimize for performance gains.

Reduce costs to manage transactions

- **Com-plete**

Serves as a transaction processing monitor to efficiently manage system resources for OLTP applications and ensure application performance and availability for many concurrent users. It seamlessly integrates all the basic software services required by OLTP applications and provides a business application server to meet your information processing needs. It is a 100% alternative to CICS.

- **Entire Connection**

Is highly scalable terminal emulation software that connects thousands of concurrent Windows users to less accessible applications running on mainframe, UNIX, Linux, OpenVMS and BS2000 platforms.

Reduce complexity of securing Natural applications

- **Natural Security**

Secures Natural applications during development and runtime by controlling user access with profiles to manage permissions for multiple user roles (such as administrator, user and group).

- **Natural SAF Security**

Reduces administration efforts to maintain security of Natural resources up to 90% by allowing connection with external SAF compliant security systems, such as RACF, CA-ACF2 or CA-Top Secret.

Improve access to non-Adabas databases

- **Natural SQL Gateway**

Extend the reach of Natural mainframe applications to data stored on open-systems SQL databases. Create a single view of your customer by easily integrating data from multiple SQL databases.

- **Natural for DB2**

Enables Natural applications to access DB2 using Natural's own data manipulation language or standard SQL. It supports development of the database application up to three times faster than with COBOL.

Natural also provides native access to non-Adabas databases via the following products: Natural for SQL/DS, Natural for DL/I and Natural for VSAM.

- **Natural for Tamino**

Supports direct access of XML documents stored in the Tamino XML Server.

- **Entire Access**

Enables direct interaction between Natural programs and any relational database (Oracle, Sybase and SQL Server) using Natural's own data manipulation language or standard SQL.

SOFTWARE AG COMMUNITIES

Software AG's Developer Communities include a Natural Community to keep you connected to Natural users and experts around the world. By registering for the Natural Community, you can participate in discussion forums that enable you to exchange best practices, enhance productivity and improve your technical skills. Registered members can also subscribe to the TECHniques newsletter, which offers technical tips and tricks. Membership to the Developer Community is FREE. For more information, please visit: <http://developer.softwareag.com>

WORLDWIDE USER GROUPS

Our strong network of worldwide user groups also helps build Adabas and Natural skills. Through a local user group, you can exchange ideas and discuss technology issues, experiences and concerns. Many groups offer classes that provide product hints and tips. Through ServLine24, regional meetings and annual International Conferences, user group members have access to a broad product knowledge base. To learn more, please visit: www.softwareag.com/corporate/community/usergroup

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

ABOUT SOFTWARE AG

Software AG is the world's largest independent provider of Business Infrastructure Software. Our 4,000 global enterprise customers achieve business results faster by modernizing, integrating and automating their IT systems and processes. As a result, they rapidly build measurable business value and meet changing business demands. Based on our solutions, organizations are able to liberate and govern their data, systems, applications, processes and services – achieving new levels of business flexibility.

Our leading product portfolio includes solutions for high performance data management, developing and modernizing applications, enabling service oriented architecture, and improving business processes. By combining our technology with industry expertise and best practices experience, our customers improve and differentiate their businesses – faster.

Software AG – Get There Faster.™

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