Do you want to:

- Access data quickly and easily?
- Develop enterprise applications fast?
- Meet business demands efficiently?
- Speed up application changes?
- Boost performance significantly?
Adabas & Natural Application Development Platform

Quickly develop and deploy the enterprise applications business users demand

Natural is an application development and deployment environment known for exceptional ease-of-use, efficient cross-platform portability and unmatched developer productivity. 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 and developers can become quickly productive with Natural. Additionally, you can combine Java® and Natural projects, creating a single collaborative environment. Natural is available on mainframe, Linux®, UNIX® and Windows® (LUW).

Benefits

Rapid development
Utilize agile development processes and tools to create and deliver mission-critical applications with exceptional speed.

Responsive applications
Deliver modern applications to businesses and accomplish business tasks more quickly.

Adaptable to new technologies
Leverage IT investments in changing environments. Extend application capabilities to meet new requirements architectures.

Features

Integrated
Use an Eclipse-based tool environment for all development, maintenance and modernization tasks.

Multi-platform support
Develop and deploy Natural applications on mainframe and LUW. Natural for Mainframe provides comprehensive support of the latest features of IBM® System z® (such as IBM® zIIP™) and other mainframe environments. With Natural for LUW, you can also easily migrate Natural applications from the mainframe to lower cost z/Linux and LUW platforms without sacrificing power and performance.

Simple
Easy-to-learn programming of business applications masks technical complexity.

Productive
Tools for automating development and test tasks increase both developer productivity and code quality.

Interoperable
Flexibly and seamlessly integrate with other application environments, such as packaged applications, the cloud, a Service-Oriented Architecture (SOA), Java or .NET.

Multi-DBMS
Assure common data and SQL access to many database systems, such as Adabas, DB2®, Oracle® and SQL Server®.

Secure
Count on built-in application security capabilities for authentication and authorization.

Lifecycle management
Manage and control application source code and deployment processes.

Web applications
Natively develop rich and mobile web applications without the need to learn web technologies.

SOA
Develop stand-alone or distributed applications supporting service-oriented environments.

NaturalONE enables common Eclipse development for all layers.
Key products

**Natural**
Application development and deployment environment known for ease-of-use, cross-platform portability and developer productivity. Available for mainframe and LUW platforms.

**NaturalONE**
Eclipse-based integrated development environment used to intuitively develop, modernize and manage applications for the mainframe and LUW. Available for Natural on mainframe and LUW.

**Natural for AJAX**
Enables developers to build new web applications quickly and modernize existing Natural applications without restructuring source code. Available for Natural on mainframe and LUW.

**Natural Engineer**
Used to analyze Natural code automatically and also scrub bad or redundant code. Ideal for application modernization. Available for Natural on mainframe and LUW.

**Natural Screen Tester**
Automates testing of green-screen-based Natural business functions. Integrated with NaturalONE, it supports DevOps Continuous Integration & Continuous Deployment (CI/CD) with tools like Jenkins®.

**Natural Construct**
A model-based application generator that reduces development efforts by 50 percent. Available for Natural on mainframe and LUW.

**Natural Security**
Secures Natural applications during development and runtime by controlling user access. Available for Natural on mainframe and LUW.

**Natural SAF Security**
Allows connection with external SAF compliant security systems. Available for Natural on mainframe.

**Predict**
A data dictionary that reduces application development and maintenance by up to 50 percent; centralizes key information in one repository. Available for Natural on mainframe and LUW.

**Predict Application Control**
Used for application versioning to ensure controlled and secured transfer of applications and updates into production. Available for Natural on mainframe.

**Natural for zIIP™**
Enables you to move batch and online workload of Natural from IBM GPP to zIIP for execution. Achieve optimum results and reduce the overall total cost of computing with Natural Batch for zIIP, Natural for Com-plete for zIIP or Natural for CICS® for zIIP. Available for Natural on the mainframe.

**Natural for DB2/IMS/DL1/VSAM**
Enables Natural applications to access DB2/IMS/DL1/VSAM using Natural’s own data manipulation language or standard SQL. Available for Natural on mainframe.

**Entire Access**
Enables direct interaction between Natural programs and relational databases using Natural’s own data manipulation language or standard SQL. Available on Natural for LUW.

**ApplinX**
Transforms and modernizes core systems from green screens into modern web interfaces and high-value business services.

**EntireX**
Turns existing application functions into new .NET, Java or web services comprised of business logic and transactions from a wide range of host environments.

Related services

Software AG offers a full set of support services, including IT health checks, upgrade support, and assessment and implementation services.

For more information, visit [www.softwareag.com/services](http://www.softwareag.com/services). For details on product training, certifications and other educational services, visit [www.softwareag.com/education](http://www.softwareag.com/education).

About Natural

- Reliably processes billions of concurrent transactions
- Used to develop and run large business applications with millions of lines of code
- Provides business logic as services with millions of calls per day
- Serves high-demand batch and online application workloads
- Ensures continuous operations

Modernize your Adabas & Natural applications with ease to compete effectively in the digital age.
Other transaction platforms include:

**Adabas & Natural Database Management System**
featuring the fastest transactional database

**Adabas & Natural Application Modernization**
increasing the business value of existing apps

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### Application development in the real world

**travel-BA.Sys** | Germany | The travel company created a new self-service web portal for business intelligence that assured security, availability and ease-of-use by using NaturalONE, Natural for AJAX, webMethods and Adabas. The solution enriched customer relationships, resulting in increased business contracts, reduced staff, and optimized reporting and processes.

“Using Natural for AJAX was innovative because we could not only secure our previous investments and knowledge built with Natural, but also benefit from new technologies and move to a single development platform—all at the same time.”

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**Pennsylvania State University** | U.S. | Penn State fully integrated business systems with business logic captured in Natural. The university was able to modernize and reuse business logic, which allowed it to provide services in an SOA.

“We’re committed to an open architecture. We know we need to go to an Eclipse-based environment so we can have one common tool on every department’s desktops. Software AG’s direction with Eclipse-based Natural environment allows us to do that.”

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**AAFMAA** | U.S. | The Army & Air Force Mutual Aid Association, a long-time customer of Software AG, used NaturalONE as a key component of a very successful IT modernization initiative. Developers used NaturalONE to create web services from existing Natural code to extend applications via their website to 86,000 members.

“NaturalONE gives us one tool where we can look at all aspects of web services development from WSDL, XML to SOAP communications. We were able to integrate our decades-old Adabas & Natural applications with modern web services through .NET and Java using NaturalONE as the development environment.”

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**J. A. Majors** | U.S. | A Software AG customer since 1990, J.A. Majors developed all inventory, ordering and credit card systems in Adabas & Natural. J.A. Majors uses Natural Business Services to write the front-end of websites in Java and leverage these proven systems.

“Now we can launch a new custom website fast—in one month—and we can use the back-end logic we had already built using Adabas & Natural.”

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**ABOUT SOFTWARE AG**

Software AG (Frankfurt TecDAX: SOW) helps companies with their digital transformation. With Software AG’s Digital Business Platform, companies can better interact with their customers and bring them on new ‘digital’ journeys, promote unique value propositions, and create new business opportunities. In the Internet of Things (IoT) market, Software AG enables enterprises to integrate, connect and manage IoT components as well as analyze data and predict future events based on Artificial Intelligence (AI). The Digital Business Platform is built on decades of uncompromising software development, IT experience and technological leadership. Software AG has more than 4,500 employees, is active in 70 countries and had revenues of €879 million in 2017. To learn more, visit www.softwareag.com.

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