



Sybase® EAServer 4.0

open



Open, Versatile, Powerful, Complete

Leveraging its new support for the Java™ 2 Platform–Enterprise Edition (J2EE)™ 1.3 specification, Sybase EAServer 4.0 is the industry's most open high-performance, scalable, and secure application server for e-portal and Internet solutions that use multi-tier architectures.

Sybase EAServer is the premier choice for application development because its reliable, dependable design adapts to existing IT architectures to support high-performance, scalable, distributed and Web applications. That means you preserve your investments in technology, skills, resources, and infrastructure while supporting next-generation n-tier solutions.

Comprehensive J2EE 1.3 Support

Sybase EAServer supports J2EE 1.3, which shields you from the low-level complexities of large-scale applications by supplying transaction management, lifecycle management, resource pooling, and more. Take advantage of:

- **Enterprise JavaBeans™ 2.0** – Message-driven beans and enhancements to container-managed persistence.
- **JSP™ 1.2/Servlet 2.3** – Write JSPs in XML with embedded scripts and Java processing for dynamic XML page creation, in addition to HTML page creation.
- **JAXP** – The Java™ API for XML parsing.
- **JAAS** – The Java-based security interface allowing for pluggable authentication components.
- **JMS 1.0.2** – EAServer supports the standard Java messaging interface as a wrapper on top of existing service.
- **Connectors (JCA)** – This common access methodology lets you pool connections into legacy systems such as SAP® and PeopleSoft.®
- **JTS** – The Java Transaction Service.
- **JDMK API** – This provides access to Java applications through standard SNMP monitoring systems.

Component, Language, and Platform Independence

Sybase EAServer supports a very broad range of simultaneously interacting component models, including CORBA® 2.3/IIOP 1.2, ActiveX®/COM, Enterprise JavaBeans™ Java® Servlets, and PowerBuilder® NVOs. Sybase EAServer supports most major programming languages, including Java™ C/C++, Visual Basic.®, and PowerBuilder and runs on all leading enterprise platforms, including Microsoft® Windows NT/2000, Sun® Solaris,™ HP-UX®, IBM AIX®, and Red Hat® Linux.

Enterprise-Caliber Performance and Scalability

EAServer supports high-volume applications through robust transaction-management and two-phase commit. New options for performance tuning—including object and page caching—provide a robust and flexible means for improving enterprise-class performance and scalability. A multi-threaded SMP execution engine, intelligent connection pooling, and failover and load-balancing features all combine to support even the most sophisticated applications.

Security

Sybase EAServer employs a “plug-in” security model that enables you to deploy custom authentication, authorization, and role membership. You can also take advantage of native OS security, x.509 digital certificates, or other mechanisms. EAServer also supports automatic HTTP tunneling, SSL 4.0 (40- and 128-bit encryption) from HTTP requests. For role-based security, you can assign logins to roles and roles to objects in the server. You can set roles at the package, component, or method within a component. EAServer also caches security information to improve performance.

A Wide Range of Significant Benefits

Sybase EAServer provides enterprises with a broad set of important benefits, including:

- Faster time-to-market through reusable components, rapid learning curves, faster development cycles, and simplified deployment.
- Unstoppable reliability through the use and reuse of tested, proven components, in-memory failover, load balancing, and clustering.
- Investment protection through integration with back-end legacy systems.
- Easier manageability through sophisticated tuning and administration features such as instance pooling, transaction management, thread-pooling and property sheets.

A Sybase EAServer Edition to Match Your Specific Needs

- **Enterprise Edition** – Ideal for very large organizations requiring robust transaction-processing and high-end capabilities such as access to CICS applications, two-phase commit, fault tolerance, and 24x7 operation.
- **Advanced Edition** – Similar to Enterprise Edition, this features unlimited connections and clustering with scalability for high performance. It does not include access to CICS applications, two-phase commit, or fault tolerance.
- **Small Business Edition** – This edition is targeted at information-publishing applications. A maximum of 10 active transaction-server connections are supported. It’s appropriate for organizations not requiring clustering, mainframe database connections, two-phase commit, or fault tolerance.
- **Developer Edition** – Designed for developers seeking to build and test Sybase EAServer applications, this edition is full featured, but restricted to 5 IIOP connections.



SYSTEM REQUIREMENTS

Microsoft Windows NT 4.0 Service Pack 5
or Microsoft Windows 2000 Service Pack 2

- Pentium II 400Mhz
- 256 MB memory
- 1 GB free disk space

Sun Solaris 2.6 (with patch 105568-02 or
later) or Sun Solaris 2.8 (no patch required)

- Sparc Ultra-10, 333Mhz UltraSparc CPU
- 256 MB memory
- 1 GB free disk space

HP-UX B11.0 (with required patches)

- 256 MB memory
- 1 GB free disk space

IBM AIX 4.3.3 (with 4.3.3 Fixe Package)

- 256 MB memory
- 1 GB free disk space

Red Hat Linux 6.2

- Kernel 2.2.14-5.0smp
- 256 MB memory
- 1 GB free disk space

International Contacts

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NEW In Sybase EAServer 4.0

- **J2EE 1.3 Support** – Following in Sybase tradition of support for the Java standard, EAServer 4.0 provides support for the latest version of J2EE.
- **JDMK API** – Access Java applications through standard SNMP monitoring systems. (Enterprise edition only)
- **WebServer Plug-Ins** – Web server plug-ins for Apache, Netscape, iPlanet™ and Microsoft Internet Information Server reside on the Web server and pass JSP and servlet requests without requiring a third-party engine or Web server.
- **Embedded Installer** – A “silent installer”—designed for OEMs who want to bundle/embed EAServer with their unique products—automatically installs and configures the server and allows for transparent deployment of components from the command line.
- **In-Memory Failover** – EAServer uses memory to store session and entity bean information for better performance for stateless and stateful components when failing over to a new server. (Enterprise edition only)
- **Repository Versioning** – Ensures all systems have the same software version. If necessary, you can roll back quickly and easily.
- **Cross-Platform Clustering** – Sybase EAServer fully supports clustering and synchronization on all supported operating systems anywhere on the network.
- **Performance Tuning** – Tune your systems with object and page caching.
- **Hotspot VM Support** – JDK 1.3 includes Hotspot VM support to improve memory management through better garbage collection and improved performance in many CPU-intensive applications.



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