



IBM WebSphere Application Server Community Edition V3.0 helps streamline the creation of OSGi and Java Enterprise Edition 6 applications

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At a glance

With WebSphere® Application Server Community Edition V3.0:

- Developers can select just the components they need for optimum productivity (using OSGi and a component assembly model).
- Developers can get Java™ Enterprise Edition (Java EE) 6 applications started quickly for no charge.
- System administrators are given more deployment and management options.
- Organizations can take advantage of world-class, IBM® support options under a socket-based pricing model that can help reduce the cost burden in larger configurations.
- You have access to a comprehensive and proven portfolio of middleware products from the WebSphere family.

Overview

WebSphere Application Server Community Edition V3.0 is the IBM open source-based application server that provides:

- Java Enterprise Edition (Java EE) 6 support
- An enterprise OSGi application programming model
- Java Standard Edition (Java SE) 6 support

Version 3 is built on Apache Geronimo and integrated with best-of-breed, open-source technology such as Apache Tomcat, Eclipse Equinox OSGi Framework, Apache Aries, Apache OpenEJB, Apache OpenJPA, Apache OpenWebBeans, and Apache MyFaces. Eclipse-based development tooling further accelerates your application development. This offering provides a flexible and simplified Java development environment.

WebSphere Application Server Community Edition is suitable if your organization needs:

- The ability to reduce costs of tactical deployments
- Open source solutions for quick, frictionless access to application server technology with no up-front costs
- A trusted vendor to provide reliable support and an upgrade path to more advanced capabilities as needed

Developers can reduce costs and be more responsive to business needs by:

- Leveraging the modularity and versioning of OSGi with existing web modules
- Developing with the latest Servlets, Restful Web Services, JSF, and EJB specifications
- Targeting 'basic' and more 'typical' web applications for minimal configuration small footprint servers
- Utilizing the integrated Eclipse plug-ins and support for IBM Rational® Tools for OSGi Applications

System administrators can:

- More easily integrate third-party libraries and better manage production system changes
- Take advantage of additional options for deploying production applications

You can choose from a variety of support options to meet company needs and guidelines. These options are offered via pricing that is based upon per Limited Use Socket¹ that closely matches your deployment and production configuration needs.

Finally, you can gain access to a comprehensive and proven portfolio of middleware products from the WebSphere family of products. IBM can provide a clear path to advanced capabilities such as WebSphere Application Server and WebSphere Application Server Network Deployment as your needs grow over time.

To learn more about WebSphere Application Server Community Edition and feature packs, visit

<http://www.ibm.com/websphere/wasce/>

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

¹ An electronic component that accepts a processor chip; refer to the [Ordering information](#) section for more information.

Key prerequisites

Selected levels of:

- AIX®
- Linux™
- Solaris
- Windows™

Planned availability date

September 27, 2011

Description

WebSphere Application Server Community Edition V3.0 delivers several enhancements to this premier open source offering from the WebSphere family. These enhancements include:

- Full Java EE6 compliance with the ability to create a WebProfile or other custom assembly
- Support for an Enterprise OSGi Application programming model from the Apache Aries project
- Support for OSGi Enterprise standards for Blueprint, JMX, JNDI, JTA, JPA, and web applications
- Integrated support for the IBM Rational Development Tools for OSGi Applications
- Continued support for lightweight, small footprint development and runtime environment
- Rich, command line console for Community Edition administration and debugging
- Continued options for socket-based support pricing

Specifics of the Version 3.0 enhancements include the following:

New support

- Java EE 6 specifications, including Servlet 3.0 (Apache Tomcat V7), JPA 2.0 (Apache OpenJPA), JSF 2.0 (Apache MyFaces), JCDI (Apache OpenWebBeans), JASPIC (jsr-196), JAX-RS Restful Web Services (Apache Wink), EJB 3.1 and EJB Lite (Apache OpenEJB), Bean Validation (Apache Bean Validation), and others
- OSGi Blueprint Container - standardized declarative, fine-grained, dependency injection for OSGi enterprise applications
- Automatic OSGi bundle dependency resolution and provisioning
- Ability to dynamically update OSGi services
- Ability to load multiple version of bundles into the same server
- Ability for applications to consume bundles from a shared bundle repository, reducing footprint and simplifying dependency management
- POJO components that may be published as OSGi services and injected as dynamic references into other components
- Java SE 6

New server runtime functions

- Ability to accept encrypted passwords in deployment plans and encrypt passwords in config.ser
- Multi-point failover support for EJBs
- JMS clustering support for more robust failover capabilities
- Improved ability to consume server.xml for Apache Tomcat to reduce barriers to running Tomcat based applications on WebSphere Application Server Community Edition
- OSGi component framework as Geronimo run-time environment

Usability improvements

- Secure Shell (SSH)-based remote server administration (for improved security during administration).
- Command line management of Java EE and OSGi applications and bundles.
- Commands for debugging and diagnosing OSGi problems.
- Application-independent, principle role mapping.
- Role-based administration.

- New commands for Geronimo. These series of commands help facilitate interactions with the Geronimo Kernel (starting, stopping, connecting, deploying modules, and so on). For a list of commands, visit

<https://cwiki.apache.org/GMOxDOC30/gogo-commands-for-geronimo.html>

A similar list of commands is also available in the *WebSphere Application Server Community Edition 3.0 User Guide* at

<http://publib.boulder.ibm.com/wasce/V3.0.0/en/index.html>

- Plan creator portlet improvement. Currently the plan creation wizard only takes a web-app (.war) as input when auto-creating `geronimo-web.xml`. WebSphere Application Server Community Edition V3.0 enhances the wizard to also take an EJB-JAR input and automatically create "openejb-jar.xml".
- JMS Portlet improvement, to provide better ActiveMQ administration through the console.
- EJB Portlet improvement, to provide better configuration and viewing of the OpenEJB container.
- Monitoring Portlet console code improvement.
- New OSGI Portlet that includes enhancements to the administrative console to better manage the OSGi framework.
- EJB container tuning on Console. A portlet that shows information about the OpenEJB container and allows parameter configuration.
- Improved usability of Geronimo Console: Navigation and groupings that entail some of the improvements.
- Linux service script.
- Custom server assembly User Interface improvements: Includes custom assembly by categories.

New Geronimo Eclipse plug-in (GEP) features

- Integrated support for the IBM Rational Development Tools for OSGi Applications
- Ability to create Custom Server Assemblies, including custom assembly by categories
- Ability to export plug-ins
- Wizards to create the datasource pool and security realm
- Eclipse 3.6 support

Socket-based support pricing

There are a variety of support options to choose from to meet your company needs and guidelines. The Limited Use Socket-based support pricing can closely match your deployment and production configuration needs and budgets, and potentially provide lower costs for larger configurations. For details, refer to the [Ordering information](#) section.

In addition, WebSphere Application Server Community Edition continues to offer superior value in the open source application server space.

Community innovation through Apache Geronimo technology

WebSphere Application Server Community Edition uses technology from Apache Geronimo, the open-source application server project at the Apache Software Foundation. Apache Geronimo brings together best-of-breed technologies across the broader open source community to support Java EE specifications, including:

- Apache Aries, to support the OSGi programming model.
- Apache Tomcat, to support servlets and JavaServer Pages (JSP).
- Apache OpenEJB, to support EJB.
- Apache OpenJPA, to support the Java Persistence API (JPA).
- Apache MyFaces, to support JavaServer Faces.

- ActiveMQ, to support JMS.
- Apache OpenWebBeans. This implementation of the Web Beans specification provides Contexts and Dependency Injections in a Java EE product (JSR-299, and required by the Java EE 6 Web Profile). It enables EJB 3.1 components to be used as JSF-managed beans and therefore unifies the two component models. It will provide considerable simplification to the programming model for web-based applications in Java. The environment also becomes more suitable for rapid development of simple, data-driven applications while not sacrificing the full power of the Java platform.
- TranQL to support Java Database Connectivity (JDBC) web services.

Clear path to advanced capabilities

Your investment in WebSphere Application Server Community Edition increases in value over time as the open-source community continues to mature and innovate. Also, WebSphere Application Server Community Edition gives you access to the comprehensive and proven portfolio of WebSphere middleware products.

As your needs grow over time, IBM solutions provide a path to advanced capabilities such as SOA through WebSphere Application Server and WebSphere Application Server Network Deployment configurations.

Integration to help save time and money

WebSphere Application Server Community Edition includes the baseline components you need to deploy an application in one integrated package. To help ensure that the components work together, IBM continually tests and tracks the interdependencies between them. This eliminates the need for you to undertake this tedious and time-consuming task.

The open source Apache Derby database is also integrated with WebSphere Application Server Community Edition for a full-featured, robust, small-footprint database server that you can use during development and deployment.

Database support

WebSphere Application Server Community Edition provides driver support for

- Apache Derby
- DB2 Universal Database™
- Oracle
- Microsoft™ SQL Server
- Informix®
- MySQL

Any JDBC-compliant database can be used with WebSphere Application Server Community Edition V3.0.

Liberal product license

WebSphere Application Server Community Edition, released under the IBM License Agreement for Non-Warranted Programs (ILAN), can be used at no charge in development, testing, and production. You can make unlimited copies of the software for use in the organization.

Additionally, because WebSphere Application Server Community Edition uses open-source technology as its underlying foundation, there is freedom to obtain the source for these open-source components. Should the need arise, the ILAN allows modifications to these open-source components, and use the modified components with internal use of the WebSphere Application Server Community Edition.

Convenient access to code

The product binaries are available on the IBM website. You can choose to selectively install specific components, such as JDK. A wizard-driven installation application guides you through the installation. For more information, visit

<http://www.ibm.com/websphere/wasce>

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Product positioning

WebSphere Application Server Community Edition is positioned for:

- Organizations that want to reduce costs of tactical deployments
- Organizations that are reviewing open source solutions for quick, frictionless access to application server technology with no upfront costs
- Organizations needing a trusted vendor to provide reliable support and an upgrade path to more advanced capabilities as needed

WebSphere Application Server Community Edition may be the right configuration, if you:

- Have considerable Java skills in-house or access to Java skills through trusted partners
- Need quick, frictionless access to application server technology with no upfront costs
- Need a highly customizable application server that can be tailored to the specific needs of your particular project
- Need a small footprint application server that can be easily embedded for client solutions

Technical information

Hardware requirements

- Disk: 120 MB, to hold the server's installation files, initial configuration, and log files (not including JDK, logging or deployed applications)
- Memory: Minimum 140 MB physical memory (256 MB or more recommended, depending on deployed applications)

For complete and up-to-date requirements, visit

<http://www.ibm.com/software/webservers/appserv/community/sysreq/>

Software requirements

AIX

- AIX V7 Update 1
- AIX V6 Update 1 or later
- AIX V5 Update 3 ML4 or later

LINUX

- Asianux Server Version 3 (x86-32, x86-64, and System p®)
- Red Hat Enterprise Linux, Version 4 with Update 7 or 8 (x86-32, x86-64, and System p)
- Red Hat Enterprise Linux, Version 5 with Update 5 or 6 (x86-32, x86-64, and System p)
- Red Hat Enterprise Linux, Version 6 with Update 1 (x86-32, x86-64, and System p)
- Novell SUSE Linux Enterprise Server, Version 10 with Service Pack (SP) 3 or 4 (x86-32 and x86-64, and POWER®)
- Novell SUSE Linux Enterprise Server, Version 11 with Service Pack (SP) 1 (x86-32, x86-64, and System p)
- Novell SUSE Linux Enterprise Desktop, Version 10 with Service Pack (SP) 3 or 4 (x86-32 and x86-64)
- Novell SUSE Linux Enterprise Desktop, Version 11 with Service Pack (SP) 1 (x86-32 and x86-64)

Solaris

- Solaris 10 with latest Patch Cluster (SPARC only)

Windows

- Windows XP Professional with SP3
- Windows Vista with SP2
- Windows Server 2003 with SP2
- Windows Server 2003 x64 with SP2
- Windows Server 2003 R2 with SP2
- Windows Server 2003 R2 x64 with SP2
- Windows Server 2008 with SP2
- Windows Server 2008 x64 with SP2
- Windows 7 with SP1
- Windows Server 2008 R2 x64 with SP1

For complete and up-to-date requirements, visit

<http://www.ibm.com/software/webservers/appserv/community/sysreq/>

Publications

Product documentation for WebSphere Application Server Community Edition V3.0 in HTML format is available at

<http://publib.boulder.ibm.com/wasce>

Topics covered include:

- Quick start
- Choosing your strategy
- Concepts
- Tasks
- Reference
- Frequently asked questions

Product documentation is available in English.

Ordering information

Product information, including available support options, is available at

<http://www.ibm.com/software/webservers/appserv/community/>

To download a copy of WebSphere Application Server Community Edition V3.0, visit

<http://www.ibm.com/developerworks/downloads/ws/wasce>

For WebSphere Application Server Community Edition Resources on IBM Developer Works, visit

<http://www.ibm.com/developerworks/websphere/zones/was/wasce.html>

Support

Product support is available under the following IBM product numbers:

5724-N12	IBM Elite Support for WebSphere Application Server Community Edition
5724-N44	IBM Entry Support for WebSphere Application Server Community Edition
5724-M97	IBM Entry Support for Apache Geronimo

This announcement does not change existing pricing information. The information listed here is for reference only. For original information on Per Limited Use Socket support options and pricing, refer to Software Announcement [210-310](#), dated November 9, 2010.

Program name	PID number	Charge metric
IBM Elite Support for WebSphere Application Server Community Edition	5724-N12	Per Limited Use Socket
IBM Entry Support for WebSphere Application Server Community Edition	5724-N44	Per Limited Use Socket
IBM Entry Support for Apache Geronimo	5724-M97	Per Limited Use Socket

Charge metrics definitions

Limited Use Socket

Limited Use Socket (LU Socket) is a unit of measure by which the program can be licensed. A Limited Use Socket is an electronic circuitry that accepts a processor chip that meets the maximum processor cores per socket authorized use terms and conditions in the *IBM Express® and Middleware Licensing Guide* at

<ftp://ftp.software.ibm.com/software/smb/pdfs/LicensingGuide.pdf>

If the program is eligible for sub-capacity licensing, Licensee may be permitted to license less than all Sockets on the Server. Sub-capacity licensing terms, conditions and eligibility requirements for LU Socket-licensed programs are described in the *Sub-capacity Guide* at

<ftp://ftp.software.ibm.com/software/smb/pdfs/SubcapacityGuide.pdf>

If Licensee's use of the program is not eligible for sub-capacity licensing based on these terms and conditions, Licensee must acquire LU Socket entitlements for all Sockets on the Server on which the program is installed. The LU Socket entitlements are specific to the program and may not be exchanged, interchanged, or aggregated with LU Socket entitlements of another software program.

Notes

- The following descriptions reflect the correct number of contacts and incidents allowed for each level of support.
- For the Elite Support options, IBM allows customers to open a limited number of "coding assistance" calls (developer to developer assistance). These are referred to below as Developer Incidents.

Program name/Description	Part number
IBM Elite Support for webSphere Application Server Community Edition, Per Limited Use Socket, Unlimited Contacts, 5 Developer Incidents, SW Support, 12 Months	D0GBPLL
IBM Elite Support for webSphere Application Server Community Edition Support for Linux on System z with Open Source Consolidation Package, Per Limited Use Socket, Unlimited Contacts, 5 Developer Incidents, SW Support, 12 Months	D0GBQLL
IBM Entry Support for Apache Geronimo, Per Limited Use Socket, 1 Contact, SW Support, 12 Months	D0GBMLL
IBM Entry Support for webSphere Application Server Community Edition, Per Limited Use Socket, 1 Contact, SW Support, 12 Months	D0GBNLL

For local charges, contact your IBM representative.

Services

To find more information about services available for WebSphere Application Server Community Edition, visit

<http://www.ibm.com/software/webservers/appserv/community/services>

Passport Advantage®

For Passport Advantage information and charges, contact your IBM representative, authorized IBM Business Partner, or authorized IBM Business Partner for Software ValueNet®, if applicable. Additional information is also available at

<http://www.ibm.com/software/passportadvantage>

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Note: Shipments will begin after the planned availability date.

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