



WebSphere® software

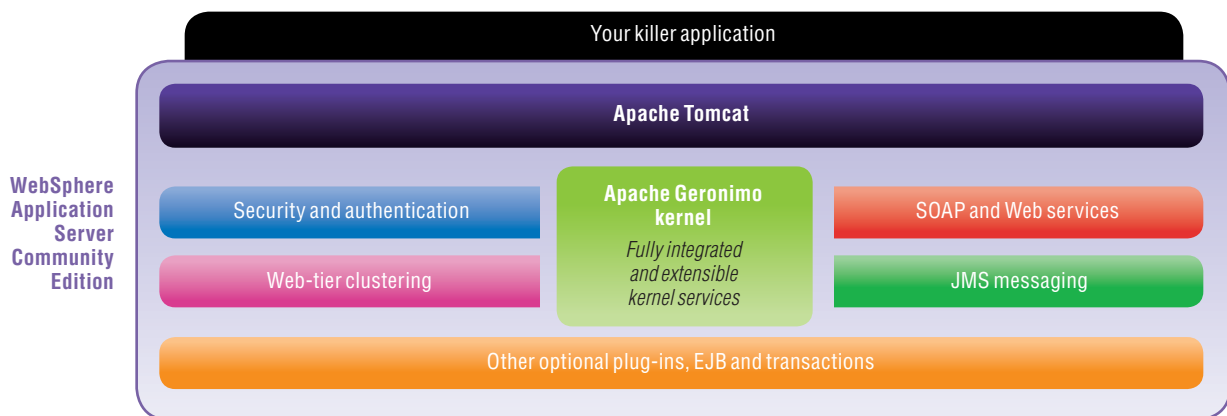
# IBM WebSphere Application Server Community Edition, Version 1.1

## Highlights

- **Delivers a lightweight J2EE application server based on open-source technology from The Apache Software Foundation**
- **Includes features such as Web-tier clustering, simplified, directory-based hot deployment and enhanced J2EE migration capabilities**
- **Offers complimentary technical support through e-mail for 30 days**
- **Gives you readily accessible, innovative technology with no up-front costs**
- **Offers trusted technical support from IBM, the market leader in application server middleware**
- **Provides a clear path to more-advanced capabilities, such as SOA, through the WebSphere Application Server family**

Using open-source technology to develop and deploy your applications can provide significant benefits. It can help increase flexibility and reduce costs — and provide quick and easy access to technology that enables you to accelerate development and deployment cycles.

IBM WebSphere® Application Server Community Edition, Version 1.1 is a lightweight Java™ 2 Platform, Enterprise Edition (J2EE) application server built on Apache Geronimo, the open-source application-server project at The Apache Software Foundation.



IBM WebSphere Application Server Community Edition preintegrates commonly needed services on top of Apache Tomcat, helping to save you time and money.



## What's new in WebSphere Application Server Community Edition, Version 1.1

With this release, new features and enhancements have been added, including:

- **Complimentary technical support through e-mail for 30 days**, to introduce you to IBM's world-class support offerings.
- **Support for IBM Java Development Kit (JDK), Version 5.0**, to permit the use of Java Standard Edition (SE), Version 5 language innovations.
- **Deployment upgrade tool** to upgrade your WebSphere Application Server Community Edition, Version 1.0.0 or 1.0.1 installations to Version 1.1.
- **Improved deployment capabilities**, including support for redeploying applications through the console and command line, hot deployment for compressed Java archive (JAR) files, and in-place deployment for exploded J2EE modules.
- **An Eclipse plug-in, now supporting the Eclipse Web Tools Platform, Version 1.5**, for creating, deploying and debugging your WebSphere applications.

It is designed to help you accelerate your development and deployment efforts by harnessing the latest innovations from the open-source community and providing a readily accessible and flexible foundation for building Java applications.

WebSphere Application Server Community Edition offers a comprehensive solution — the benefits of an open-source model along with options for fee-based support from IBM. And because the product is part of the award-winning IBM WebSphere product family, you can be confident that your requirements can be met as your business needs evolve.

## World-class support

WebSphere Application Server Community Edition is backed by IBM's team of expert support professionals and developers. As a result, you can reap the benefits of open-source technology with the confidence that comes with receiving reliable assistance and timely problem resolution from a company you can trust. Three support options — entry, enhanced and elite — enable you to choose the support level most appropriate for your business and technical needs.

Also, now, registered downloaders can receive 30 days of technical support through e-mail, free of charge. The WebSphere Application Server Community Edition trial-support program provides free online support designed to help you with problems or questions regarding the application server. Support is limited to English only on Microsoft® Windows® and Linux® platforms. To learn more, visit [ibm.com/websphere/wasce](http://ibm.com/websphere/wasce).

### **Get started with no up-front costs**

Getting started with WebSphere Application Server Community Edition is quick and easy. Its size makes it quick to download, so you can get the software up and running — and show tangible results — fast. Also, you can use WebSphere Application Server Community Edition through your development, testing and production cycles at no cost to you unless you choose to purchase the optional technical support.

### **Preintegrated to help save you time and money**

WebSphere Application Server Community Edition includes the baseline components that you need to deploy your applications in one integrated package. To help ensure that the components work together, IBM continually tests and tracks the interdependencies between them, which helps eliminate the need for you to undertake this tedious and time-consuming task on your own. Also, preintegration with the IBM Cloudscape™ database helps

deliver a full-featured, robust, small-footprint database server that can be used during development and deployment stages.

### **Customize to suit your business needs**

Because WebSphere Application Server Community Edition uses open-source technology as its foundation, you have easy access to the source code developed by the community. You can extend capabilities with custom features, or choose to remove unnecessary components to further streamline the footprint. Furthermore, because WebSphere Application Server Community Edition supports a plug-in architecture, you can extend the functionality of the server as the need arises.

### **Focus on your core capabilities**

Using WebSphere Application Server Community Edition means that you have a framework for building higher-level features. If you're a solution provider, you can focus your efforts on building differentiated value for your customers rather than rewriting core infrastructure. If you're a developer, WebSphere Application Server Community Edition can accelerate development and allow you to quickly show tangible results.

### **A clear path to advanced capabilities**

Using WebSphere Application Server Community Edition enables you to access the comprehensive and proven portfolio of IBM WebSphere middleware products. IBM can provide a clear path to advanced capabilities, such as service oriented architecture (SOA), through its WebSphere software portfolio as your needs grow over time.

### **Product features**

WebSphere Application Server Community Edition includes a range of features designed to help you meet your organization's business goals. These features include:

#### *JDK, Version 5 support*

Support for Java SE, Version 5.0 makes it possible for your WebSphere Application Server Community Edition applications to take advantage of the many language innovations in this version, including annotations, enumerated types, generics and improved performance. You can also now use components from other vendors that require Java SE, Version 5 as part of your applications.

### *A robust J2EE, Version 1.4 programming model*

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 J2EE specifications, including:

- *Apache Tomcat to support servlets and JavaServer Pages (JSP)*
- *OpenEJB to support Enterprise JavaBeans (EJB)*
- *ActiveMQ to support Java Message Service (JMS)*
- *MX4J to support Java Management Extensions (JMX)*
- *TranQL to support Java Database Connectivity (JDBC)*
- *Apache Axis to support Web services*
- *HOWL (ObjectWeb) to support Java Transaction API (JTA)*

### *Eclipse plug-in with WebSphere Application Server family portability*

The Eclipse plug-in for WebSphere Application Server Community Edition helps you take advantage of the Eclipse technology-based Web Tools Platform, Version 1.5. This plug-in offers a simple development environment for creating, deploying and debugging your WebSphere Application Server Community Edition applications. Using the J2EE profile, you can help ensure that the applications you create are portable and deliver increased flexibility.

### *Web-tier clustering and load balancing*

Web-tier clustering helps improve reliability for your applications by providing failover support. This feature also enables you to scale (up or down) and customize according to your business needs. You can achieve load balancing when you use WebSphere Application Server Community Edition in conjunction with Apache HTTP Server and mod\_jk.

### *Flexible deployment options*

Flexible deployment options and an integrated development environment (IDE) enable you to rapidly develop and deploy multiple configurations—whether as stand-alone servers or as end points in a WebSphere SOA

infrastructure. Version 1.1 adds the ability to redeploy existing deployed applications from the console and the command line, hot deployment for compressed JAR files, and in-place deployment for exploded J2EE modules.

### *Database support*

Built from the open-source Apache Derby database, the embedded Cloudscape database delivers a robust, small-footprint database server with full transactional capability that is simple to deploy and helps reduce the cost of Web-based and embedded applications. If you want external database access, WebSphere Application Server Community Edition also provides driver support for IBM DB2® Universal Database™, Oracle, Microsoft SQL Server and MySQL.

### *Runtime customization*

You can tailor WebSphere Application Server Community Edition to your needs and help improve performance while helping to save system resources by selectively enabling and disabling specific components of WebSphere Application Server Community Edition at run time.

### User management

WebSphere Application Server Community Edition features centralized user management by unifying all applications running on the platform under a shared, standards-based security framework based on Java Authorization Contract for Containers (JACC). This capability virtually eliminates the complexity of setting up and maintaining separate user-management systems for your applications. WebSphere Application Server Community Edition also supports Lightweight Directory Access Protocol (LDAP) authentication.

### Centralized configuration and control

WebSphere Application Server Community Edition delivers an easy-to-use administrative-console application that lets you manage and monitor the application server and related resources. The updated console in Version 1.1 is even easier to use and provides more valuable information for monitoring your server and your applications.

### 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 internal use. Because WebSphere Application Server Community Edition uses open-source technology as its foundation, you can obtain the source for these components through the open-source community. And should the need arise, you can make modifications as allowed through the component license.



An easy-to-use, browser-based administrative console eases the burden of managing and monitoring your application server and related resources.

### **A flexible On Demand Business infrastructure**

WebSphere Application Server Community Edition is a member of the WebSphere Application Server family of products. With its alternative business model and small footprint, WebSphere Application Server Community Edition offers increased choice and flexibility. Get started today and, as your needs grow, IBM can offer a path to more-advanced capabilities, such as SOA, through other WebSphere Application Server products.

### **For more information**

To learn more about IBM WebSphere Application Server Community Edition, contact your IBM representative or IBM Business Partner, or visit:

[ibm.com/websphere/wasce](http://ibm.com/websphere/wasce)

To learn more about services available for WebSphere Application Server Community Edition, contact your IBM representative or IBM Business Partner, or visit:

[ibm.com/websphere/wasce/services](http://ibm.com/websphere/wasce/services)

To join the Global WebSphere Community, visit:

[www.websphere.org](http://www.websphere.org)

## Optional fee-based IBM support offerings for WebSphere Application Server Community Edition

Technical support teams from IBM deliver support for WebSphere Application Server Community Edition as an annual subscription, priced per server. The three tiers of support are entry, enhanced and elite. The following table summarizes the support offerings.

<b>IBM Support for WebSphere Application Server Community Edition</b>			
	<b>Entry</b>	<b>Enhanced</b>	<b>Elite</b>
<b>Technical support</b>			
Support hours (in local time zones)	8 a.m. to 5 p.m. Monday through Friday	8 a.m. to 5 p.m. Monday through Friday	24x7x365 (Severity 1)
Voice support		X	X
Electronic support	X	X	X
Response time	8 business hours	4 business hours	2 business hours <sup>1</sup>
Unlimited technical support incidents	X	X	X
Number of technical contacts who can contact IBM support	1	2	Unlimited
<b>Developer assistance<sup>2</sup></b>			
Number of application design, configuration and tuning incidents	0	3	5
Expert application design and architecture assistance		X	X
Deployment and configuration assistance		X	X
Performance-tuning assistance		X	X
<b>Defect resolution</b>			
Defect patch fixes available online	X	X	X
Critical defect workaround development	X	X	X
Defect fixes submitted to applicable community projects	X	X	X
Fixes provided for older supported releases	X	X	X
<b>Learning and self-service</b>			
Online documentation	X	X	X
Access to IBM developerWorks® technical content, newsletters, Web broadcasts and forums	X	X	X
Professional services offerings available (at additional charge)	X	X	X
Pricing metric <sup>3</sup>	Per server	Per server	Per server

1. Faster response times available with special bid.

2. Covers specific and short-duration questions or issues, and is not intended to cover issues requiring or best resolved by having extended program-design reviews.

3. Up to four processors per server; otherwise, a special bid is required.

**IBM WebSphere Application Server Community Edition, Version 1.1 at a glance**

	IBM WebSphere Application Server Community Edition, Version 1.1	IBM WebSphere Application Server - Express, Version 6.1	IBM WebSphere Application Server, Version 6.1	IBM WebSphere Application Server Network Deployment, Version 6.1
<b>Java programming model</b>				
Full J2EE, Version 1.4 support	X	X	X	X
Java SE, Version 5 support	X	X	X	X
Support for JSP, Version 2.0 and Java servlets, Version 2.4	X	X	X	X
Full XML support	X	X	X	X
Java application programming interface (API) for XML registries (JAXR)	X	X	X	X
JAX-Parsing (JAXP), Version 1.2	X	X	X	X
JAX-Remote Procedure Call (RPC) support	X	X	X	X
Java Specification Request (JSR) 109 support	X	X	X	X
EJB, Version 2.1	X	X	X	X
JMS, Version 1.1	X	X	X	X
JMX, Version 1.2 and JSR-077 (for J2EE management)	X	X	X	X
JSR-088 (for J2EE deployment)	X	X	X	X
JACC, Version 1.0	X	X	X	X
Built-in JavaServer Faces (JSF) support		X	X	X
<b>Web services</b>				
Full Web services support	X	X	X	X
Support for private Universal Description, Discovery and Integration (UDDI) registries	X	X	X	X
UDDI, Version 3		X	X	X
Web services gateway				X
Web Services Interoperability (WS-I) Organization Basic Profile, Version 1.1	X	X	X	X
Web services transactions (WS-TX)		X	X	X
SOAP with attachments API for Java (SAAJ), Version 1.1	X	X	X	X



**IBM WebSphere Application Server Community Edition, Version 1.1 at a glance continued**

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<b>Administration and workload management</b>				
Simplified administration using the development-tool interface		X		
Web browser-based administrative console	X	X	X	X
Intelligent workload distribution across a cluster				X
Failure bypass				X
Simple failover and load balancing	X		X	X
<b>Security</b>				
Basic authentication and authorization for security-rich access to Web resources	X	X	X	X
Enhanced authentication and authorization through Common Security Interoperability (CSI), Version 2.0, single sign-on and support for LDAP	X	X	X	X
Advanced authentication and authorization, such as Java Authentication and Authorization Service (JAAS) and Java Cryptography Extension (JCE) for enhanced security	X	X	X	X
<b>Database support and connectivity</b>				
JDBC and connection management for access to Cloudscape database	X <sup>1</sup>	X	X	X
JDBC and connection management for IBM Informix <sup>®</sup> and Sybase <sup>2</sup>		X	X	X
JDBC and connection management for DB2 Universal Database, Microsoft SQL Server and Oracle	X	X	X	X
JDBC for access to IBM DB2 Universal Database for i5		X	X	X
<b>Application development</b>				
Sample applications	X	X <sup>3</sup>	X	X
Integrated development tool — IBM Rational <sup>®</sup> Web Developer		X	X	X
IBM Rational Application Developer tools available		X	X	X
Eclipse plug-in tool	X			

**IBM WebSphere Application Server Community Edition, Version 1.1 at a glance continued**

	IBM WebSphere Application Server Community Edition, Version 1.1	IBM WebSphere Application Server - Express, Version 6.1	IBM WebSphere Application Server, Version 6.1	IBM WebSphere Application Server Network Deployment, Version 6.1
<b>Integrated On Demand Business applications</b>				
IBM Telephone Directory		X		
IBM Welcome Page		X		
<b>Web server support</b>				
IBM HTTP Server, Version 1.1 included		X	X	X
WebSphere plug-ins		X	X	X
Apache Tomcat	X			
<b>Platform support</b>				
Support for IBM AIX®, Microsoft Windows and Linux systems	X	X	X	X
Support for Linux on IBM POWER™ architecture	X	X	X	X
Support for Linux on IBM System z9™ platforms			X	X
Support for servers with more than four processors <sup>4</sup>			X	X
<b>Application connectivity</b>				
Full JMS technology-supported message-driven beans, including embedded JMS transport	X	X	X	X
Microsoft component-object-model architecture to Enterprise ActiveX client and server resources <sup>5</sup>			X	X
<b>Performance support</b>				
Enhanced features for performance, such as dynamic caching, IBM Tivoli® Performance Viewer software and integration with vendor tools		X	X	X
<b>Migration support</b>				
Migration documentation	X	X	X	X
Migration aids	X	X	X	X

1. Supported for development and production.

2. Not supported on the IBM System i5™ platform.

3. Samples integrated with the tool for quick-start development.

4. WebSphere Application Server - Express is restricted to two processors per server. WebSphere Application Server Community Edition is restricted to four processors per server. WebSphere Application Server and WebSphere Application Server Network Deployment are not limited.

5. Not supported on the System i5 platform.

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**IBM WebSphere Application Server Community Edition, Version 1.1 at a glance continued**

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**Hardware requirements**

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- Disk space: Minimum 120MB available disk space (not including JDK)
- Memory: Minimum 128MB physical memory (256MB or more recommended, depending on deployed applications)

**Software requirements**

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- *AIX operating environment*
    - AIX, Version 5 with Update 3 and Maintenance Level (ML) 4 for System p
  - *Linux operating environment (one of the following)*
    - Red Hat Enterprise Linux, Version 3 with Update 7 or 8 (x86-32 and x86-64)
    - Red Hat Enterprise Linux, Version 4 with Update 3 or 4 (x86-32, x86-64 and System p)
    - Novell SUSE Linux Enterprise Server, Version 9 with Service Pack (SP) 2 or 3 (x86-32, x86-64 and System p)
    - Novell SUSE Linux Enterprise Server, Version 10 (x86-32 and x86-64 and POWER)
    - Red Flag Data Center, Version 5.0 (x86-32 and x86-64)
  - *Windows operating environment (one of the following)*
    - Windows XP Professional with SP2 (supported for application design, development and testing only; not supported for production use) (x86-32 and x86-64)
    - Windows 2003 with SP1 (x86-32 and x86-64)
    - Windows 2003 Server x64 SP1 (x86-64 only)
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For a complete list of recommended and compatible operating systems, please see

[ibm.com/software/webservers/appserv/community/sysreq/](http://ibm.com/software/webservers/appserv/community/sysreq/) and click "Detailed System Requirements."



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