

IBM WebSphere Application Server Family

*Providing the right application foundation to meet
your business needs*



Highlights

- Build a strong foundation and reduce costs with the right application server for your business needs
 - Increase agility with the ability to efficiently build, deploy and manage innovative applications and services
 - Reduce costs through improved operational efficiency while delivering reliability your customers can trust
 - Remove complexity and uncertainty with integrated management that provides security and control
-

IBM believes it is time to build a smarter planet because the world is more instrumented, interconnected and intelligent than ever before. To take advantage of the new opportunities that a smarter planet presents, organizations need to be agile while optimizing their costs. One way to achieve agility and cost optimization is to take a close look at your business applications and the infrastructure that supports them. Companies need an application infrastructure that drives efficiencies, is secure and is just as dynamic as today's business climate. The IBM® WebSphere® Application Server Family was designed from the ground up to enable company IT operations and development to increase business agility and optimize costs through the efficient delivery of innovative, high-performing business applications.

To help ensure your applications can keep up with the demands of your business, regardless of the situation, the WebSphere Application Server Family provides a choice of foundations for building, deploying and managing all types of applications. From business-critical and key enterprise-wide applications to the smallest departmental-level applications, IBM provides the right-size foundation to balance key considerations such as security, scalability and manageability with cost and simplicity in homogenous or, especially, mixed environments.

WebSphere Application Server V8 expands on previous versions by delivering complete Java™ EE 6 support and certification, increased support for programming models and standards, enhanced performance, administration and security capabilities, faster problem determination,



directory-based Java EE application installs and simplified product install and maintenance. Built on the industry-leading performance of past versions, WebSphere Application Server V8 further enhances performance while driving down costs by increasing data center efficiency through workload consolidation. Security enhancements strengthen your ability to protect customer data.

Efficiently build, deploy and manage innovative applications and services

With WebSphere Application Server V8, you can offer your customers new and natural ways to access business applications without constraint of time, location or device type. Support for Web 2.0 and Mobile, OSGi Applications, Java Batch, XML, Service Component Architecture (SCA), Communications Enabled Applications (CEA), Session Initiation Protocol (SIP) and Dynamic Scripting programming models are provided, with implementation examples that help developers easily take advantage of the latest standards and programming models. You can modernize applications while reducing cost by reusing existing home-grown, packaged and legacy applications and extending them to the web. You can stay competitive by easily providing rich user experiences to customers and partners on the web with online chat, click-to-call and innovative cobrowsing capabilities. And real time business access can be enabled through mobile and wireless devices, which can help improve your customer support experience for users of your applications.

Improve operational efficiency and reliability

With WebSphere Application Server V8, you can deliver responsive and available applications your customers can trust and increase operational efficiency through increased performance. You can reduce cost associated with slow application response time through built-in scalability and workload distribution. Costs can further be reduced by up to 30 percent by leveraging the high performance to consolidate workloads onto fewer servers. Also, industry leading quality of service allows you to maintain transaction integrity, overall reliability and scalability while reducing downtime.

Leverage integrated management and tools for enhanced security and control

With WebSphere Application Server V8, you can remove complexity and reduce costs by using integrated management and tools for increased administrator and developer efficiency and enhanced security. Centralized management capabilities let you view and monitor multiple locations to reduce costs and streamline IT operations. Developer productivity is also enhanced with integrated tools and backwards compatibility that eliminate recoding of existing Java applications. Finally, flexible and granular security control helps you better protect customer data.

WebSphere Application Server Feature Packs

Feature packs

Web 2.0 and Mobile - helps you deliver dynamic and interactive user experiences for desktop and mobile Web applications through Web 2.0/Ajax and visualization technologies to extend the reach of enter. [V7] [V8]

Communications Enabled Applications - helps you deliver interactive desktop and mobile web applications combining communications capabilities, such as click to call and co-browsing into an existing or new application with Java and JavaScript skills. [V7]

Dynamic Scripting - helps you quickly deliver situational and departmental applications by leveraging dynamic scripting languages such as PHP and Groovy; based on WebSphere sMash. [V7] [V8]

OSGI Applications and Java Persistence API 2.0 - enables a simplified application framework that increases development and operational productivity through the standards-based modularity, dynamism and versioning as well as data persistence. [V7]

Service Component Architecture - provides a simple, yet powerful programming model for constructing applications based on Service-Oriented Architecture (SOA), helping to improve composite application development and management and streamline reuse across multiple applications. [V7]

XML - delivers the latest XML standards while simplifying the development and increasing the reliability and performance of applications that use XML-based data. [V7]

Modern Batch - supports a Java Batch programming model, offers tools and operational controls for Batch workload execution, enables development and deployment of batch applications, and allows execution of batch and OLTP workloads. [V7]

Key:

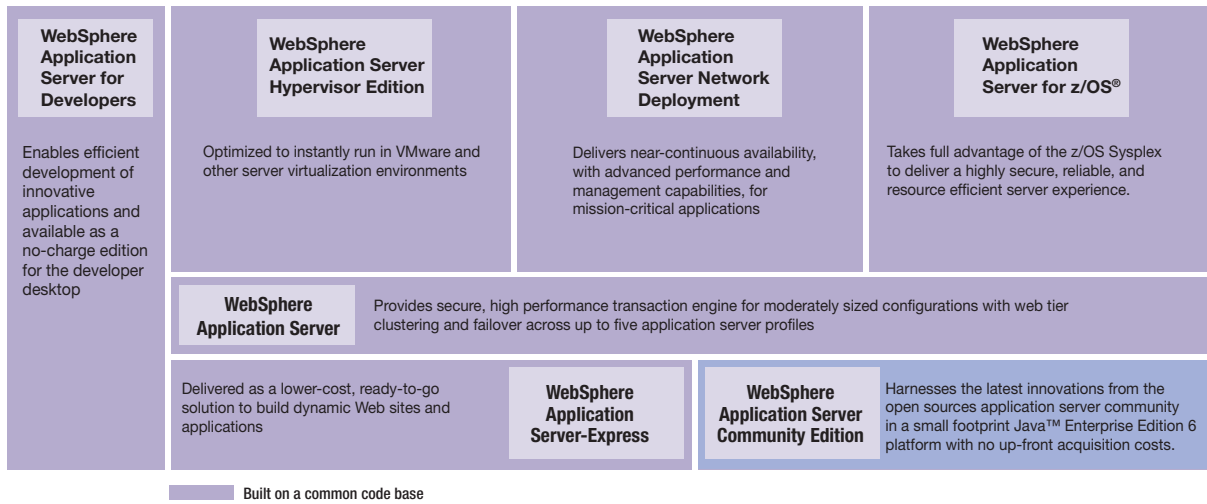
V7 = WebSphere Application Server V7.0 Feature Pack
V8 = WebSphere Application Server V8.0 Feature Pack

WebSphere Application Server Feature Packs

Extend your value with WebSphere Application Server Feature Packs

Building on the solid foundation of WebSphere Application Server, Feature Packs are also available so you can access the latest technologies to efficiently develop innovative, high performing applications all while avoiding costly and time-consuming upgrades to the application server. Feature Packs give you the option to add new capabilities to an existing version of WebSphere Application Server without disrupting business operations.

Feature Packs give you more for your applications, such as access to the latest standards and programming models—all at no additional charge for existing WebSphere Application Server customers with current support and subscription. For more details on and the latest information on new and updated feature packs and downloads, go to ibm.com/websphere/featurepacks.



WebSphere Application Family Portfolio

WebSphere Application Server configurations

WebSphere Application Server V8 supports the broadest range of application foundations in the industry, helping provide assurance that your applications can be built to run on the application foundation that makes sense for your business.

Regardless of the situation, the IBM WebSphere Application Server Family provides a choice of foundations for building, deploying and managing all types of applications. From business-critical and key enterprise-wide applications to the smallest departmental-level applications, IBM provides the right-size foundation to balance key considerations such as security, scalability and manageability with cost and simplicity in homogenous or mixed environments.

Table 1 describes the key features and functions of each WebSphere Application Server configuration, so that you can choose the configuration that best fits your current business strategy—and so that you can be prepared to grow your solution as your needs evolve. For the latest comparison information, visit ibm.com/websphere/was/compare.

	WebSphere Application Server Community Edition V3.0	WebSphere Application Server - Express V8.0	WebSphere Application Server V8.0	WebSphere Application Server Network Deployment V8.0	WebSphere Application Server Hypervisor Edition V7.0	WebSphere Application Server for z/OS® V8.0
Optimized for:	Developers or businesses with deep Java skills that need quick access to open source technology to accelerate deployment of low-complexity projects with low transaction volumes	Small and mid-size businesses that need an easy, lower-cost, ready-to-go solution for smaller scale deployments of dynamic web applications	Medium to large businesses that need to scale foundation to build, run and manage dynamic web applications on single server or moderately sized deployment environments	Enterprises that need advanced management, automated performance optimization and near-continuous availability for their mission-critical applications	Enterprises that need advanced management, automated performance optimization and near-continuous availability for their mission-critical applications optimized to instantly run in VMware and other server virtualization environments	Enterprises that require z/OS qualities of service to achieve optimized performance and continuous availability for their mission-critical applications
Java EE 6 compliance	●	●	●	●		●
Java EE 5 compliance	●	●	●	●	●	●
Java Platform, Standard Edition 6 (Java SE 6.0)	●	●	●	●	●	●
Broad programming model choice	○	●	●	●	●	●
Simple failover	●	●	●	●	●	●
Advanced clustering	○			●	●	●
Large-scale transaction support				●	●	●
Dynamic caching				●	●	●
Advanced security		●	●	●	●	●

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Runtime provisioning	◐	●	●	●	●	●
Administrative Agent, to reduce overhead of administration		●	●	●	●	●
Job Manager, to enable scalable remote administration				●	●	●
Workload management within a server: integrated with z/OS Workload Manager						●
Reporting and chargeback: granular reporting on resource consumption						●
WebSphere Application Server Feature Packs	◐	●	●	●	●	●
Optimized to instantly run in VMware and other virtualization environments					●	
Broad operating-system support and database connectivity	◐	●	●	●	●	◐ ¹
Socket-based pricing option	●		●			
Application assembly and deployment tooling	◐	●	●	●	●	●
Open source based	●	◐	◐	◐	◐	◐
Production-use database	●					
24x7 product support	Available for fee	●	●	●	●	●

Key: ● = fully supported, ◐ = partially supported, blank = not supported

Table 1: Key features and functions of IBM WebSphere Application Server configurations

	WebSphere Application Server Community Edition V3.0	WebSphere Application Server - Express V8.0	WebSphere Application Server V8.0	WebSphere Application Server Network Deployment V8.0	WebSphere Application Server Hypervisor Edition V7.0	WebSphere Application Server for z/OS V8.0
Programming Model Support						
Java EE 6	●	●	●	●		●
Java EE 5	●	●	●	●	●	●
Java Platform, Standard Edition 6 (Java SE 6.0)	●	●	●	●	●	●
Web 2.0 and Mobile	●	●	●	●	●	●
OSGi Applications	○	●	●	●	●	●
Java Batch		●	●	●	●	●
XML		●	●	●	●	●
Service Component Architecture (SCA)		●	●	●	●	●
Communications Enabled Applications (CEA)		●	●	●	●	●
Session Initiation Protocol (SIP)		●	●	●	●	●
Dynamic Scripting		●	●	●	●	

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Integrated Tooling Support						
Rational Application Developer Standard Edition for WebSphere Software (Trial included)	◐	●	●	●	●	●
Rational Application Developer, integrated with Rational Software Architect for WebSphere (separately available)	●	●	●	●	●	●
IBM Assembly and Deploy Tool for WebSphere Administration, built on Eclipse		●	●	●		●
IBM Rational® Application Developer assembly and deploy module for WebSphere, built on Eclipse	◐				●	

Key: ● = fully supported, ◐ = partially supported, blank = not supported

Table 2: Programming Model and Integrated Tooling support by IBM WebSphere Application Server configurations

	WebSphere Application Server Community Edition V3.0	WebSphere Application Server - Express V8.0	WebSphere Application Server V8.0	WebSphere Application Server Network Deployment V8.0	WebSphere Application Server Hypervisor Edition V7.0	WebSphere Application Server for z/OS V8.0
Administration and Performance						
Flexible management				●	●	●
Runtime provisioning service	●	●	●	●	●	●
High performance extensible logging (HPEL)		●	●	●		●
Enhanced performance features, including edge-of-network services				●	●	●
WebSphere business-level applications, expanding the notion of “application” beyond Java EE		●	●	●	●	●
Simplified install and maintenance		●	●	●		●
Centralized installation and maintenance				●	●	●
Managed directory-based Java EE application install, update and uninstall		●	●	●		●

	WebSphere Application Server Community Edition V3.0	WebSphere Application Server - Express V8.0	WebSphere Application Server V8.0	WebSphere Application Server Network Deployment V8.0	WebSphere Application Server Hypervisor Edition V7.0	WebSphere Application Server for z/OS V8.0
Advanced Security						
WebSphere secure proxy				●	●	●
WebSphere security domains		●	●	●	●	●
Security auditing		●	●	●	●	●
Kerberos authentication and single sign-on		●	●	●	●	●
Security Assertion Markup Language (SAML) token support		●	●	●	●	●
Use of z/OS security environment without affecting the application interface						●

Key: ● = fully supported, ◐ = partially supported, blank = not supported

Table 3: Administration, Performance and Security support by IBM WebSphere Application Server configurations

	WebSphere Application Server Community Edition V3.0	WebSphere Application Server - Express V8.0	WebSphere Application Server V8.0	WebSphere Application Server Network Deployment V8.0	WebSphere Application Server Hypervisor Edition V7.0	WebSphere Application Server for z/OS V8.0
Migration Support						
Migration documentation	●	●	●	●	●	●
Migration tools and assistance	◐	●	●	●	●	●
Upgrade to any WebSphere Application Server Configuration based on Java EE compatibility	●	●	●	●	●	●
Platform Support						
Microsoft Windows®, Linux®, IBM AIX® and Oracle Solaris™	●	●	●	●		
HP-UNIX®		●	●	●		
IBM i		●*	●	●		
Linux on IBM System z®	●		●	●	●	
64-bit addressing	◐		●	●		●
Use on servers and virtual partitions without processor value unit (PVU) limitations	●		●	●	●	●
z/OS and z/OS sysplex						●

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Table 4: Application development and management highlights

For more information

To learn more about the IBM WebSphere Application Server Family, access downloads and further information, please contact your IBM marketing representative or IBM Business Partner, or visit the following websites:

ibm.com/software/webservers/appserv

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Route 100
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March 2011
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¹ z/OS is the only operating system supported.



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