IBM WebSphere Application Server V5 and IBM WebSphere Studio V5: A Single Web Services-Enabled, J2EE Server Foundation and Integrated Development Environment

Overview

WebSphere® Application Server, V5 and WebSphere Studio, V5 offer an all-in-one, cost-effective integrated-foundation platform for foundation messaging flows and applications with:

- One deployment model
- One administration point
- One programming model
- One integrated application development environment

A fast, scalable, and reliable server based on J2EE technology, WebSphere Application Server, V5 enables you to build, deploy, and grow your e-business.

WebSphere Application Server, V5 delivers multiple configuration options for a wide range of scenarios, from simple administration of a single server to a clustered, highly available, high-volume environment with the inclusion of sophisticated load balancing and caching capability based on WebSphere Edge Server.

Choose the WebSphere Application Server configuration that best meets your requirements. Server options include:

- IBM WebSphere Application Server — Express, V5
- IBM WebSphere Application Server, V5
- IBM WebSphere Application Server for Developers, V5
- IBM WebSphere Application Server Network Deployment, V5
- IBM WebSphere Application Server for z/OS™, V5
- IBM WebSphere Application Server Enterprise, V5
- IBM WebSphere Application Server Enterprise for Developers, V5
- IBM WebSphere Application Server for iSeries™, V5

As your e-business requirements change, you can migrate smoothly to other configurations.

Increase developer productivity with WebSphere Studio, V5, a flexible, portal-like development environment that easily integrates with best-of-breed tools to meet all your development life-cycle needs.

Based on Eclipse technology, WebSphere Studio is an open, comprehensive development environment for building dynamic e-business applications and Web services or re-using existing assets, such as integrating back-end business data and applications to the Web. WebSphere Studio options include:

- IBM WebSphere Studio Site Developer for Linux and Windows®, V5
- IBM WebSphere Studio Application Developer for Linux and Windows, V5
- IBM WebSphere Studio Application Developer Integration Edition for Linux and Windows, V5
- IBM WebSphere Studio Enterprise Developer for Multiplatforms, V5
- IBM WebSphere Development Studio for iSeries, V5
- IBM WebSphere Development Studio Client for iSeries, V5

Refer to the Statement of General Direction for availability intent.

At a Glance

With WebSphere Application Server and WebSphere Studio, you can build, test, deploy, integrate, and manage dynamic e-business applications.

Features include:

- Multiple configuration options for flexibility
- Full Java™ 2 Platform, Enterprise Edition (J2EE) 1.3 compatibility, including support for an enterprise-ready JMS provider
- Production-ready environment that includes Private Universal Description, Discovery, and Integration (UDDI) and Web Services Gateway for the development and deployment of enterprise Web services
- Superior performance and scalability
- Reduced development complexity and increased application flexibility with visual workflow based on service-oriented architecture
- Wizards, code generators, and best practices to increase application quality, simplify development, and boost productivity
- Industry’s broadest cross-platform support

For ordering, contact:

Your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL

Reference: YE001

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**With your chosen WebSphere Application Server configuration, you can:**

- Get to market faster by quickly designing new applications ready to be integrated as Web services, and by leveraging existing software through built-in customizable, programmable adapter technology
- Administer, deploy, and manage applications with agile setup options and administration features
- Boost developer productivity with an integrated, open-standards-based development environment featuring customizable high-end tools and that promote reuse of modular resources
- Meet the changing demands of dynamic e-business using intelligent end-to-end application optimization built with an industry-leading combination of reliability, scalability, and performance, all within an environment which uses rich security features

**Configuration options include:**

**WebSphere Application Server — Express** offers a cost-effective, out-of-the-box solution to manage a simple yet dynamic Web site. Based on the latest Java technology and Web services standards, WebSphere Application Server — Express lets you convert ordinary, static Web sites into dynamic Web experiences that engage customers and empower employees.

WebSphere Application Server — Express is easy to use from beginning to end. It offers:

- A five-click wizard-driven installation
- A tightly integrated package, including a simplified Web application server, development environment based on WebSphere Studio, wizards, and samples to reduce complexity and deployment costs
- A simplified programming model that allows you to leverage existing skills
- Support for the latest specifications for JavaServer Pages, Java servlets, and Web services
- One-click application assembly and deployment
- Near zero maintenance to minimize administration requirements

When more advanced development and deployment capabilities are needed, WebSphere Application Server — Express offers smooth migration to other WebSphere Application Server and WebSphere Studio configurations.

**WebSphere Application Server, V5** reinforces its reputation as the premier Java-based application server, integrating enterprise data and transactions for the dynamic e-business world. WebSphere Application Server, V5 provides a rich e-business application deployment environment with a set of application services that include enhanced capabilities for enablement and management of heterogeneous Web services, increased security, performance, availability, connectivity, and scalability.

In addition to providing these functions, WebSphere Application Server, V5:

- Extends the J2EE 1.3 programming model by providing a comprehensive infrastructure to support production-ready deployment of Web services-based applications
- Supports core Web services standards like XML, Simple Object Access Protocol (SOAP) and Web Services Description Language (WSDL)
- Deploys Web services with communication mechanism of your choice, including SOAP and HTTP, Java Message Service (JMS), or Remote Method Invocation Internet Inter-ORB Protocol (RMI/IIOP)

With an application server run-time environment on every developer desktop, the **WebSphere Application Server for Developers** allows enterprise customers who use third-party development tools to develop applications for WebSphere Application Server as effectively as WebSphere Studio developers.

World-class clustering, caching, and high availability combined with industry-leading Web services support make **WebSphere Application Server Network Deployment** one of the first production-ready Web application servers for the deployment of enterprise Web services solutions for dynamic e-business. WebSphere Application Server Network Deployment is the "next level" in application serving beyond WebSphere Application Server in that it provides advanced Web services and clustering capabilities. Advanced Web services features include a private UDDI registry for easier deployment of internal Web services applications and a Web Services Gateway for external applications that request Web services to use rich security features to access an internal Web services provider application.

**WebSphere Application Server for z/OS, V5** is a J2EE 1.3-compliant Web services application server providing application programming model consistency with WebSphere Application Server Network Deployment in a configuration specifically optimized to utilize the unique qualities of service provided by IBM server zSeries™ hardware and the z/OS operating system. WebSphere Application Server for z/OS was built to provide the robust, enterprise-level capabilities for workload management, availability, and scalability demanded by the most advanced mission-critical e-business applications.

**WebSphere Application Server Enterprise** is a next-generation application server that simplifies build-to-integrate tasks, accelerates application development, and enables real-time adaptable applications. WebSphere Application Server Enterprise meets the needs of customers who require advanced build-to-integrate capabilities such as advanced application adapters, application flow composition and choreography, extended messaging, dynamic rules-based application adaptability, and internationalization. WebSphere Application Server Enterprise can be differentiated from WebSphere Application Server Network Deployment in that it delivers more development capabilities, extending the J2EE infrastructure to deliver additional build to integrate capabilities.

**WebSphere Application Server, V5 for iSeries, WebSphere Application Server — Express for iSeries, V5, and WebSphere Application Server Network Deployment, V5 for iSeries** deliver all the value of the WebSphere Application Server on the iSeries platform.
Based on the open Eclipse platform, WebSphere Studio, V5 provides the tools and infrastructure to strategically transform your enterprise, and effectively compete in today’s fast-paced market. With WebSphere Studio, you can:

- Accelerate application development by providing a comprehensive, flexible, and productive development environment that supports J2EE, Web, and Web services standards
- Increase team productivity by automating development and deployment process, reusing existing assets, by opening the door to new technologies, and leveraging traditional technologies and mixed workload environments
- Improve flexibility with comprehensive solutions, with one development environment that scales to support multiple platforms, devices, and types of application development—Web, Java, business logic, integration, and Web services
- Leverage innovative technologies and techniques by integrating progressive, best-of-breed, third-party, and IBM tools into a single, customizable development environment
- Extend and integrate existing assets across your enterprise, integrate with back-end systems, migrate core Web-based services quickly, and build Java and Web applications with ease all within one comprehensive, easy-to-use development environment

WebSphere Studio, V5 is available in several configurations, each designed for a specific need:

- WebSphere Studio Homepage Builder is an entry-level Web authoring tool. You can create and publish Web sites with ease by using the intuitive WYSIWYG user interface, easy-to-use wizards, templates, and support for JavaScript, Dynamic HTML, and CSS.
- WebSphere Studio Site Developer is the on-ramp to the WebSphere Studio experience. This robust, easy-to-use development environment helps you to create, build, and maintain dynamic Web sites, applications, and Web services.
- WebSphere Studio Application Developer is the core application development environment from IBM. It helps to optimize and simplify J2EE application development with best practices, templates, code generation, and the most comprehensive development environment in its class.
- WebSphere Studio Application Developer Integration Edition is the complex application development and integration environment. It is the build-to-integrate solution for accelerated development and integration of complex applications.
- WebSphere Studio Enterprise Developer is the Web and traditional development environment for the Enterprise. It brings the power of J2EE, rapid application development, and team support to diverse enterprise application development organizations.
- WebSphere Development Studio for iSeries is a comprehensive, integrated, iSeries suite of host and workstation tools for traditional, client/server, and e-business development. The workstation tool set, WebSphere Development Studio Client for iSeries, V5, features iSeries enhancements to the Java and Web development tools, and the IBM WebFacing Tool—the fastest, easiest, and most cost-effective way to move 5250 applications to the Web.

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**Statement of General Direction**

IBM will make the following components of WebSphere Application Server, V5 available at a later date:

- WebSphere Application Server — Express, V5
- WebSphere Application Server for z/OS, V5
- WebSphere Application Server — Enterprise, V5
- WebSphere Application Server — Enterprise for Developers, V5
- WebSphere Application Server — Express for iSeries, V5
- WebSphere Studio Site Developer for Linux and Windows, V5
- WebSphere Studio Application Developer for Linux and Windows, V5
- WebSphere Studio Application Developer Integration Edition for Linux and Windows, V5
- WebSphere Studio Enterprise Developer for Multiplatforms, V5
- WebSphere Development Studio Client for iSeries, V5

This information represents current IBM intentions, goals and objectives, and is subject to change or withdrawal without additional or prior notice.

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**Reference Information**


For information on WebSphere Application Server, V5 for iSeries and WebSphere Application Server Network Deployment, V5, for iSeries, refer to Software Announcement 202-316, dated November 19, 2002.

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**Note:** Shipments will begin after the planned availability date.

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