

# WebSphere Application Server Developer Edition 7

IBM® WebSphere eXtended Transaction Runtime V2.1 is an addition to the IBM Transaction Processing capabilities. This product provides a fast, scalable, and reliable transaction processing experience. Many customers have invested much time and effort in the development of business logic in CICS® style COBOL and C applications and are looking to unlock the value of those applications and extend them by using Java EE. This paper helps you explore this product and provides information that helps you host your CICS style COBOL and C applications on a WebSphere platform. This paper also provides you with a detailed step-by-step approach for modernizing your existing Tuxedo-based applications through a migration to WXTR. This paper is intended for developers and architects who want to extend and reuse their CICS style COBOL and C applications.

& • Everything Java developers need to start building J2EE applications using WebSphere Tools for the WebSphere Application Server & & • Hands-on techniques and case studies: servlets, JSP, EJB, IBM VisualAge for Java, and more & & • Written by IBM insiders for IBM Press

IBM WebSphere Application Server Liberty Profile Guide for Developers IBM Redbooks  
IBM DB2 Universal Database V8 offers breakthrough availability, manageability, performance, and scalability. Now, straight from IBM, there's a start-to-finish guide to DB2 Universal Database V8 administration and development for UNIX, Linux, and Windows. This definitive reference covers every aspect of deploying and managing DB2 Universal Database V8, including database design for optimal performance, availability, and recoverability; day-to-day

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administration and backup; comparing, selecting, and using appropriate DB2 programming techniques; deploying networked and Internet-centered database applications; migrating to DB2 UDB from other databases or earlier versions of DB2; and much more. Using real-world examples, this book shows how to take full advantage of DB2 V8's most powerful enhancements. Philip K. Gunning brings together IBM's best tips and techniques for saving time and money in every facet of database design, development, deployment, and administration. Coverage includes:

- Leveraging DB2 V8's new Wizards, Advisors, and other automation/self-management features
- Using the enhanced DB2 XML Extender to build next-generation B2B applications
- Quickly creating Stored Procedures and UDFs with the new Development Center
- Exploiting multidimensional clustering, prefetching, materialized query tables, Java threading, and other performance improvements
- Using the DB2 improved monitoring and logging facilities
- Maximizing availability via online table and index reorganization and dynamic configuration
- Understanding the latest changes in the DB2 product family

This IBM® Redbooks® publication provides system administrators and developers with the knowledge to configure an IBM WebSphere® Application Server Version 8 runtime environment, to package and deploy applications, and to perform ongoing management of the WebSphere environment. As one in a series of IBM Redbooks publications and IBM Redpapers publications for V8, the entire series is designed to give you in-depth information about key WebSphere Application Server features. In this book, we provide a detailed exploration of the WebSphere Application Server V8 runtime administration process. This book includes configuration and administration information for WebSphere Application Server V8

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and WebSphere Application Server Network Deployment V8 on distributed platforms and WebSphere Application Server for z/OS® V8. The following publications are prerequisites for this book: WebSphere Application Server V8.0 Technical Overview, REDP-4756 IBM WebSphere Application Server V8 Concepts, Planning, and Design Guide, SG24-7957 Save Time and Money: Streamline WebSphere Application Server Management with Jython Scripting! Utilizing Jython scripting, you can dramatically reduce the effort, resources, and expense associated with managing WebSphere Application Server. WebSphere Application Server Administration Using Jython will show you how. The first start-to-finish guide to Jython scripting for WebSphere administration, this book's practical techniques and downloadable scripts can help you improve efficiency, repeatability, and automation in any WebSphere environment. This book's expert authors begin with practical introductions to both WebSphere Application Server administration and Jython, today's powerful, Java implementation of Python. Next, they cover a broad spectrum of WebSphere management tasks and techniques, presenting real, easy-to-adapt solutions for everything from server configuration and security to database management. These are powerful solutions you can begin using immediately—whether you're running WebSphere in production, development, or test environments. Coverage includes Mastering the Jython rules, characteristics, and properties that are most valuable in WebSphere scripting Viewing and manipulating WebSphere configuration and run-time details Making the most of the wsadmin scripting engine and objects—including rarely-used wsadmin parameters that can simplify administration Adjusting wsadmin properties to reflect your needs and environment Using the AdminApp scripting object to list, view, install, uninstall, and modify AppServer applications Using the AdminTask

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object to manipulate WebSphere Application Server at a high level Configuring the WebSphere Application Server with AdminConfig Manipulating active AppServer objects (MBeans) with AdminControl Controlling security, including aliases, roles, administrative and application security, and multiple security domains

From development to troubleshooting, this is the only complete reference for IBM WebSphere Application Server Advanced Edition v.4. Readers can put what they learn to work immediately.

Businesses are always looking for ways to improve the customer experience. They need to connect with existing and new customers in innovative ways and deliver experiences that never disappoint. They also require technology-strengthened business strategies with the flexibility to adapt to new opportunities quickly. To achieve this agile state, many are using cloud-based solutions to create personalized customer experiences and harness existing enterprise applications, data, and services for a competitive advantage. IBM® WebSphere® Application Server on cloud (WebSphere on cloud) helps businesses like yours take advantage of the cloud as a strategic environment to realize various benefits: Reduce costs by optimizing the entire application-related infrastructure. Create opportunities by rapidly creating and integrating cloud-based applications. Reap more value from existing applications by augmenting them with cloud services. Deliver compelling customer experiences across all channels. Speed time to market at a lower cost through rapid creation and deployment of APIs and microservices. Increase brand reach or drive new revenue by publishing APIs externally. Drive innovation by enhancing your Java applications with IBM Bluemix® services. Optimize existing workloads by lifting and shifting them unchanged to the cloud in just minutes, allowing

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you to take advantage of fast and flexible provisioning, and pay-as-you-go pricing. This IBM Redbooks® Redguide™ publication introduces the WebSphere on cloud capabilities and highlights key concepts that are associated with this IBM WebSphere offering. The guide discusses the business value offered by WebSphere on cloud, provides a high-level architectural view, and explains three common entry points (Create, Connect, and Optimize) to cloud. The guide also identifies the IBM products that play important roles in those entry points. It includes real-world examples of how customers are using WebSphere on cloud to resolve business challenges and enhance return on investment (ROI).

CD-ROM contains: evaluation version of WebSphere application server, standard ed.; entry version of VisualAge for Java, version 3.0; entry version of WebSphere Studio, version 3.0. Develop and deploy powerful Web-based applications on multiple platforms--including UNIX, NT, and AIX. Packed with essential information as well as advanced techniques for developers and system integrators, this book will help you maximize every aspect of WebSphere's functionality, and fully leverage the power of this key e-infrastructure software. Covering core Web technologies including EJB, J2EE, and servlets and including original source code for hundreds of working programs, IBM WebSphere Application Server Programming belongs in the hands of every serious WebSphere developer and system integrator.

This IBM® Redbooks® publication demonstrates, through a practical solution and step-by-step implementation instructions, how customers can use the IBM Rational® Application Lifecycle Management (ALM) portfolio to build and manage an integrated IBM WebSphere® Application. Building a business application (mobile and desktop) that uses WebSphere Application Server, IBM MQ, IBM Integration Bus (IB), Business Process Management (BPM), Operational

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Decision Management (ODM), and Mobile. IBM Redpaper™ publication, Rapid deployment of integrated WebSphere solutions in your cloud, REDP-5132, is an extension to this IBM Redbooks publication. Using the same practical solution covered in this Redbooks publication, REDP-5132 demonstrates how the IBM PureApplication® System is a "logical extension" versus a "whole new world", covering PureApplication Patterns and the new PureApplication as a service on Softlayer. The intended audience for this book is architects, developers, administrators, and DevOps personnel.

IBM WebSphere Application Server 8.0 Administration Guide is a highly practical, example-driven tutorial. You will be introduced to WebSphere Application Server 8.0, and guided through configuration, deployment, and tuning for optimum performance. If you are an administrator who wants to get up and running with IBM WebSphere Application Server 8.0, then this book is not to be missed. Experience with WebSphere and Java would be an advantage, but is not essential.

- This is the latest practice test to pass the C9510-401 IBM WebSphere Application Server Network Deployment V8.5.5 and Liberty Profile, System Administration Exam. - It contains 70 Questions and Answers. - All the questions are 100% valid and stable. - You can reply on this practice test to pass the exam with a good mark and in the first attempt.

This IBM® Redbooks® publication provides information about the concepts, planning, and design of IBM WebSphere® Application Server V8.5 environments. The target audience of this book is IT architects and consultants who want more information about the planning and design of application-serving environments, from small to large, and complex implementations. This book addresses the packaging and features in WebSphere Application Server, and

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highlights the most common implementation topologies. It provides information about planning for specific tasks and components that conform to the WebSphere Application Server environment. Also in this book are planning guidelines for Websphere Application Server and Websphere Application Server Network Deployment on distributed platforms. It also includes guidelines for WebSphere Application Server for IBM z/OS®. This book contains information about migration considerations when moving from previous releases. This book has been updated with the new features introduced with WebSphere Application Server V8.5.5.

IBM® Rational® Application Developer for WebSphere® Software V8 is the full-function Eclipse 3.6 technology-based development platform for developing Java™ Platform, Standard Edition Version 6 (Java SE 6) and Java Platform, Enterprise Edition Version 6 (Java EE 6) applications. Beyond this function, Rational Application Developer provides development tools for technologies, such as OSGi, Service Component Architecture (SCA), Web 2.0, and XML. It has a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including web developers, Java developers, business analysts, architects, and enterprise programmers. This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V8.0.1. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications and achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7.5

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Programming Guide, SG24-7672.

This IBM Redbooks publication can help you plan and perform the migration of your J2EE applications that are developed for WebSphere Application Server Community Edition V1.1.0.1, enabling them to run on WebSphere Application Server V6.1 - Network Deployment. It includes migration strategy considerations for developing portable applications as well as working migration examples. This book discusses some of the most common migration issues that you might encounter when migrating from J2EE platforms to WebSphere Application Server V6.1. In this book, we use two sample applications to demonstrate how to migrate your J2EE applications. We migrate each application using a different approach and different development tools. In one migration, we use Rational Application Developer V7.0 and, in the other, we use the Application Server Toolkit, which comes with WebSphere Application Server V6.1 - Base. We also describe step-by-step how we built and configured our environment for these migration examples. The audience for this book includes administrators and developers that seek a process and instructions for migrating from WebSphere Application Server Community Edition to the WebSphere Application Server Basic and Network Deployment editions.

This IBM® Redbooks® publication describes IBM TXSeries® for Multiplatforms, which is the premier IBM distributed transaction processing software for business-critical applications. Before describing distributed transaction processing in general, we

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introduce the most recent version of TXSeries for Multiplatforms. We focus on the following areas: The technical value of TXSeries for Multiplatforms New features in TXSeries for Multiplatforms Core components of TXSeries Common TXSeries deployment scenarios Deployment, development, and administrative choices Technical considerations It also demonstrates enterprise integration with products, such as relational database management system (RDBMS), IBM WebSphere® MQ, and IBM WebSphere Application Server. In addition, it describes system customization, reviewing several features, such as capacity planning, backup and recovery, and high availability (HA). We describe troubleshooting in TXSeries. We also provide details about migration from version to version for TXSeries. A migration checklist is included. We demonstrate a sample application that we created, called BigBlueBank, its installation, and the server-side and client-side programs. Other topics in this book include application development and system administration considerations. This book describes distributed IBM Customer Information Control System (IBM CICS®) solutions, and how best to develop distributed CICS applications. Manage and administer your WebSphere application server to create a reliable, secure, and scalable environment for running your applications with this book and eBook. Service Component Architecture (SCA) defines a service-based model for building business process applications using an SOA approach. This ability to drive a business process using individual, reusable services is the heart of the SOA concept. With IBM®

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WebSphere® Application Server Feature Pack for Service Component Architecture, you can deploy SCA applications to WebSphere Application Server. This IBM Redpaper™ publication provides a starting point for using the Feature Pack for SCA. It provides an architectural view of SCA and of the Feature Pack. In addition, this paper explains how to create simple SCA components from existing Java™ and Spring implementations. It discusses how to apply quality of service to applications, and how to deploy and manage SCA artifacts in WebSphere Application Server. The examples in this paper use Rational® Application Developer to illustrate how to create and package SCA applications.

Although EJB applications themselves are portable, the manner in which developers install and run EJB products varies widely from one vendor to the next. The goal of this WebSphere AE workbook is to discuss vendor specific requirements and best practices and introduce tools such as the WebSphere Application Assembly Tool, and the WebSphere Administration Console, all in the context of building and running the example programs for O'Reilly's Enterprise JavaBeans, 3rd edition. The Workbook guides developers step-by-step, explaining how to build and deploy working solutions in a particular application server, and provides useful hints, tips and warnings. This WebSphere 4.0 AEs Workbook was originally published by Enterprise JavaBeans author Richard Monson-Haefel's Titan Books publishing company. O'Reilly thought so highly of it, we acquired the rights to publish it ourselves, in order to give more

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developers access to this critical information.

This IBM® Redbooks® publication provides information about the concepts, planning, and design of IBM WebSphere® Application Server V8 environments. The target audience of this book is IT architects and consultants who want more information about the planning and designing of application-serving environments, from small to large, and complex implementations. This book addresses the packaging and features in WebSphere Application Server V8 and highlights the most common implementation topologies. It provides information about planning for specific tasks and components that conform to the WebSphere Application Server environment. Also in this book are planning guidelines for WebSphere Application Server V8 and WebSphere Application Server Network Deployment V8 on distributed platforms and for WebSphere Application Server for z/OS® V8. This book contains information about migration considerations when moving from previous releases.

The author provides a practical, step-by-step approach in teaching how to use the IBM J2EE server side development tool called WebSphere Studio Application Developer (WSAD) for developing J2EE distributed applications.

This IBM® Redbooks® publication explains the capabilities of IBM WebSphere® Application Server Liberty profile (Liberty profile), which is lightweight, easy to install, and fast to use. Liberty profile provides a convenient and capable platform for developing and testing your web and OSGi applications. The Liberty profile

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server is built by using OSGi technology and concepts. The fit-for-purpose nature of the run time relies on the dynamic behavior that is inherent in the OSGi framework and service registry. As bundles are installed or uninstalled from the framework, their services are automatically added or removed from the service registry. The result is a dynamic, composable run time that can be provisioned with only what your application requires and responds dynamically to configuration changes as your application evolves. This book can help you install, customize, and configure several popular open source technologies that can be deployed effectively with the Liberty profile server. The following popular open source toolkits for the Liberty profile server were selected for this book based on the significant enhancements they provide to the web application development process: Apache Maven Spring Framework Hibernate Jenkins Opscode Chef Arquillian MongoDB In this book, the Todo sample demonstrates the use of multiple open source frameworks or toolkits with the Liberty profile server, including Maven, MongoDB, Spring, JPA, Arquillian, Wicket, and others. The Todo sample is a simple application that can be used to create, update, and delete todo items and todo lists, and put the todo items into a related todo list. Secure your IBM WebSphere applications with Java EE and JAAS security standards using this book and eBook

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A complete reference to the complex and multifaceted middleware that is WebSphere Application Server—used by huge enterprises as well as small businesses—this guide covers not only installation and configuration but the critical verification and management process for ensuring successful installation and implementation. All of the different packages, from Express to Network, are addressed so that companies of all sizes will be able to successfully implement WebSphere Application Server V6. The steps involved in setting up a complete WebSphere Application Server installation are provided, and the configuration process for a highly available, workload-managed (HA/WLM), clustered environment built using the WebSphere V6 Network Deployment package is demonstrated. Also discussed are dynamic caching, security, Web service enablement, the Application Server Tool (AST) kit, and WebSphere Rapid Deployment (WRD).

IBM® WebSphere® Application Server V8.5 includes a Liberty profile, which is a highly composable, dynamic application server profile. It is designed for two specific use cases: Developer with a smaller production run time, and production environments. For a developer, it focuses on the tasks that a developer does most frequently and makes it possible for the developer to complete those tasks as quickly and as simply as possible. For production environments, it provides a

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dynamic, small footprint run time to be able to maximize system resources. This IBM Redbooks® publication provides you with information to effectively use the WebSphere Application Server V8.5 Liberty profile along with the WebSphere Application Server Developer Tools for Eclipse, for development and testing of web applications that do not require a full Java Platform. It provides a quick guide on getting started, providing a scenario-based approach to demonstrate the capabilities of the Liberty profile along with the developer tools. This provides a simplified, but comprehensive, application development and testing environment. The intended audience for this book is developers of web and Open Services Gateway initiative (OSGi) applications who are familiar with web and OSGi application concepts. This book has been updated to reflect the new features in WebSphere Application Server.

From the very 1st chapter, this book tackles the main technique of WebSphere Application Server deployment, and provides the necessary tools to design and manage a realistic Websphere technical integration. Topics include:

- \* Offers clear understanding of the WebSphere Application Server installation and configuration
- \* Provides a complete guide to creating a WebSphere development environment with both WebSphere Studio Site Developer and WebSphere Studio Application Developer
- \* Includes extensive coverage of development for WebSphere

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including EJBs, JavaServer Pages, and Servlets \* Offers WebSphere Administrators solutions for session management and application packaging and more....

**Build Tomorrow's Best Mobile/Web Applications with IBM WebSphere Application Server 8.5 and IBM Worklight** This guide presents a coherent strategy for building modern mobile/web applications that are fast, responsive, interactive, reusable, maintainable, extensible, and a pleasure to use. Four IBM experts offer practical, hands-on coverage of front-end development with IBM WebSphere Application Server 8.5, IBM Worklight, and today's most popular open source frameworks. Using well-crafted examples, the authors introduce best practices for MobileFirst development, helping you create apps that work superbly on mobile devices and add features on conventional browsers.

Throughout, you'll learn better ways to deliver Web 2.0 apps with HTML /JavaScript front ends, RESTful Web Services, and persistent data. Proven by IBM and its customers, the approach covered in this book leads to more successful mobile/web applications—and more effective development teams.

Coverage Includes • Developing for MobileFirst: moving from “graceful degradation” to “progressive enhancement” • Quickly delivering lightweight JEE apps with WebSphere Application Server's new Liberty Profile • Implementing

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an agile, user-centered, page-oriented approach to design • Constructing REST services with WebSphere Liberty, Eclipse, and JEE annotations • Building better front-end application architectures with frameworks and JavaScript • Designing and building complex, transactional RESTful services that interface with databases and other data sources • Building IBM Worklight hybrid apps with open source frameworks: jQuery Mobile, Backbone, Require.js, and Handlebars • Debugging cross-platform, multi-language modern web apps • Promoting scalability, security, and connectivity into the wider enterprise

The IBM Press developerWorks Series pairs books with complementary resources on the developerWorks website at <https://www.ibm.com/developerworks/dwbooks/>

Let us shatter any WebSphere Application Server myths. There has never been a WebSphere Application Server Guide like this. It contains 77 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about WebSphere Application Server. A quick look inside of some of the subjects covered: IBM Websphere Studio Application Developer - History, Servlet - Container servers, WebSphere Application Server for z/OS, WebSphere - History, IBM WebSphere

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Application Server, HP OpenView - HP OpenView Smart Plug-ins, IBM TXSeries - Features and benefits, IBM WebSphere Process Server, List of IBM products - Middleware and applications, List of SIP software - Proprietary license, NetWare - NetWare 5.x, IBM System Management Facilities - SMF record types, Versant Object Database - Performance, Aspect-oriented software development Adoption, IBM WebSphere Application Server Community Edition - Product Features, WebSphere Application Server for z/OS - WAS z/OS Platform Exploitation, IBM Websphere Studio Application Developer - Overview, WebSphere Portal - Components, WebSphere Application Server - Version 5.0, WebSphere Application Server - Version history, IBM Rational ClearCase - Releases, IBM Rational ClearCase - Infrastructure, OS/400 - Features, Virtual Loadable Module - NetWare 5.x, WebSphere Application Server - Version 6.0, WebSphere Application Server - Version 5.1, IBM TXSeries - A rapid deployment integration server, IBM WebSphere ESB, IBM z/OS - Major characteristics, PureSystems - PureApplication, IBM SAN Volume Controller - Terminology, LandXML - F, WebSphere Optimized Local Adapters - Illustrations of Common API Patterns, and much more...

This IBM® Redbooks® publication can help you install, tailor, and configure WebSphere® Application Server for Developers V7 on the Microsoft® Windows® platform. WebSphere Application Server for Developers is a no-charge version of WebSphere Application Server for use in a development environment only. It allows

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application developers to develop and unit test against the same run time as the production version of WebSphere Application Server. This book tells you how to perform these tasks: Download and install WebSphere Application Server for Developers V7. Use the command-line tools, web-based administrative console, and scripting tools. Deploy a web application with Java™ Database Connectivity (JDBC) to the application server with the first version of a sample application. Configure the sample application with Enterprise JavaBeans 3 (EJB3) and Java Persistence API (JPA). Add Java Message Service (JMS) and message-driven beans (MDBs) to the sample application and configure the built-in system integration bus (SIBus) messaging infrastructure. Add Representational State Transfer (RESTful) web service to the sample application. Incorporate WebSphere-specific application bindings files with the application. Enable debugging and produce and analyze JVM outputs. Learn how to use Eclipse to view and debug the sample applications.

IBM® Rational® Application Developer for WebSphere® Software V7.0 (for short, Rational Application Developer) is the full function Eclipse 3.2 based development platform for developing Java™ 2 Platform Standard Edition (J2SE™ ) and Java 2 Platform Enterprise Edition (J2EE™ ) applications with a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including Web developers, Java developers, business analysts, architects, and

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enterprise programmers. Rational Application Developer is part of the IBM Rational Software Delivery Platform (SDP), which contains products in four life cycle categories: - Architecture management, which includes integrated development environments (Application Developer is here) - Change and release management - Process and portfolio management - Quality management This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V7.0. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications, as well as achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V6 Programming Guide, SG24-6449. This book consists of six parts: - Introduction to Rational Application Developer - Develop applications - Test and debug applications - Deploy and profile applications - Team development - Appendixes

IBM® WebSphere® Application Server V8.5 includes a Liberty profile, which is a highly composable, dynamic application server profile. It is designed for two specific use cases: Developers with a smaller production runtime, and production environments. For developers, it focuses on the tasks that a developer does most frequently, and makes it possible for the developer to complete those tasks as quickly and as simply as possible. For production environments, it provides a dynamic, small footprint runtime to be able to maximize system resources. This IBM Redbooks® publication targets

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administrators of Liberty environments. It provides the information needed to create, configure, and manage Liberty servers. It includes information about managing multiple servers in an installation, including the use of the new administrative capabilities introduced in WebSphere Application Server V8.5.5.7. The following publications are companion publications for this book: WebSphere Application Server: New Features in V8.5.5, REDP-4870 WebSphere Application Server V8.5.5 Technical Overview, REDP-4855 IBM WebSphere Application Server V8.5 Concepts, Planning, and Design Guide, SG24-8022 WebSphere Application Server Liberty Profile Guide for Developers, SG24-8076

This IBM® Redbooks® publication helps you plan and execute the migration of J2EE applications developed for Oracle WebLogic Server, JBoss, GlassFish, and Apache Tomcat, so that they run on WebSphere® Application Server V7. This book provides detailed information to plan migrations, suggested approaches for developing portable applications, and migration working examples for each of the platforms from which we migrated. It is not our intention to provide a feature-by-feature comparison of these application servers versus WebSphere Application Server V7, or to argue the relative merits of the products, but to produce practical technical advice for developers who have to migrate applications from these vendors to WebSphere Application Server V7. The book is intended as a migration guide for IT specialists who are working on migrating applications written for other application servers to WebSphere Application

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Server V7.

IBM® Rational® Application Developer for WebSphere® Software v7.5 (Application Developer, for short) is the full function Eclipse 3.4 based development platform for developing Java™ Standard Edition Version 6 (Java SE 6) and Java Enterprise Edition Version 5 (Java EE 5) applications with a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including Web developers, Java developers, business analysts, architects, and enterprise programmers. Rational Application Developer is part of the IBM Rational Software Delivery Platform (SDP), which contains products in four life cycle categories: - Architecture management, which includes integrated development environments - Change and release management - Process and portfolio management - Quality management This IBM Redbooks™ publication is a programming guide that highlights the features and tooling included with Rational Application Developer v7.5. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications, as well as achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7 Programming Guide, SG24-7501.

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