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WebSphere MQ V7.0 Features and Enhancements WebSphere MQ V6 Fundamentals Integrating the IBM MQ Appliance into your IBM MQ Infrastructure IBM MQ as a Service: A Practical Approach WebSphere MQ Security IBM WebSphere MQ V7.1 and V7.5 Features and Enhancements IBM MQ V8 Features and Enhancements Secure Messaging Scenarios with WebSphere MQ Improving z/OS Application Availability by Managing Planned Outages New Ways of Running Batch Applications on z/OS: Volume 4 IBM IMS Building Smarter Planet Solutions with MQTT and IBM WebSphere MQ Telemetry WebSphere Studio Application Developer 5.0 Establishing a Secure Hybrid Cloud with the IBM PureApplication Family End-to-end Integration with IBM Sterling B2B Integration and Managed File Transfer solutions Enterprise Messaging Using JMS and IBM WebSphere IBM Sterling Managed File Transfer Integration with WebSphere Connectivity for a Multi-Enterprise Solution Data Management in a Connected World Connecting Your Business Using IBM WebSphere Message Broker V7 as an ESB Principles of Transaction Processing for the Systems Professional Using WebSphere Message Broker V8 in Mid-Market Environments Smart SOA Connectivity Patterns: Unleash the Power of IBM WebSphere Connectivity Portfolio Accelerating Modernization with Agile Integration Smart SOA Solutions with WebSphere Enterprise Service Bus Registry Edition V7.5 Building Multichannel Applications with WebSphere Commerce High Availability in WebSphere Messaging Solutions System z Parallel Sysplex Best Practices IBM GDPS Active/Active Overview and Planning Maximizing Performance and Scalability with IBM WebSphere Distributed Computing with IBM? MQSeries Understanding and Using Q Replication for High Availability Solutions on the IBM z/OS Platform Service-oriented Software System Engineering Integration Throughout and Beyond the Enterprise Introduction to the New Mainframe: IBM z/VSE Basics Enabling IBM MQ Messaging with the IBM MQ Appliance ISV IBM zPDT Guide and Reference IBM Problem Determination Tools for z/OS Implementing High Availability and Disaster Recovery in IBM PureApplication Systems WebSphere MQ Security in an Enterprise Environment Architect's Guide to IBM CICS on System z Optimizing Cost and Reducing Complexity with IBM SOA Connectivity

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This IBM® Redbooks® publication is divided into four parts: Part 1 introduces message-oriented middleware and the WebSphere® MQ product. It explains how messaging technologies are implemented in WebSphere MQ and shows how to get started with configuring a WebSphere MQ environment. This part briefly lists the new features of WebSphere MQ V7.1 and V7.5. Part 2 introduces the enhancements to WebSphere MQ in Version 7 Release 1. It provides a description of the new features, their business value, and usage examples. It describes enhancements to WebSphere MQ for multiplatforms and z/OS®. Examples of features that are discussed in this part include multiple installation support for multiplatforms, enhanced security with channel authentication records, enhanced clustering, improved availability and scalability on z/OS, and more. Part 3 introduces the enhancements to WebSphere MQ in Version 7 Release 5 for multiplatforms. It provides a description of the new features, their business value, and usage examples. Examples of enhancements that are discussed in this part include new installation options, such as the bundling of WebSphere MQ Advanced Message Security and WebSphere MQ Managed File Transfer. Part 4 contains practical scenarios that demonstrate how the new features and enhancements work and how to use them. In summary, the introduction gives a broad understanding of messaging technologies and WebSphere MQ. It helps you understand the business value of WebSphere MQ. It provides introductory information to help you get started with WebSphere MQ. No previous knowledge of the product and messaging technologies is assumed. The remaining parts of this book discuss enhancements to previous versions of WebSphere MQ. The information helps you understand the benefits of upgrading to WebSphere MQ V7.1 and V7.5 and how to implement the new functions. Knowledge of WebSphere MQ V7.0 and earlier versions is assumed. This book provides details about IBM WebSphere MQ product features and enhancements that are required for individuals and organizations to make informed application and design decisions prior to implementing a WebSphere MQ infrastructure or begin development of a WebSphere MQ application. This publication is intended to be of use to a wide-ranging audience. IBM® Problem Determination (PD) Tools consists of a core group of IBM products that are designed to work with compilers and run times to provide a start-to-finish development solution for the IT professional. This IBM Redbooks® publication provides you with an introduction to the tools, guidance for program preparation to use with them, an overview of their integration, and several scenarios for their use. If an abend occurs during testing, Fault Analyzer enables the programmer to quickly and easily pinpoint the abending location and optionally, the failing line of code. Many times, this information is all the programmer requires to correct the problem. However, it might be necessary to delve a little deeper into the code to figure out the problem. Debug Tool allows the programmer to step through the code at whatever level is required to determine where the error was introduced or encountered. After the code or data is corrected, the same process is followed again until no errors are encountered. However, volume testing or testing with multiple terminals is sometimes required to ensure real-world reliability. Workload Simulator can be used to perform this type of testing. After all of the tests are completed, running the application by using Application Performance Analyzer can ensure that no performance bottlenecks are encountered. It also provides a baseline to ensure that future enhancements do not introduce new performance degradation into the application. This publication is intended for z/OS® application developers and system programmers. * Describes the IBM WebSphere versions 4.0 and 5.0 architecture from a nuts and bolts level, giving visibility to the technology and underlying WebSphere platform design * Describes how to proactively manage the performance of an IBM WebSphere v4 or v5 platform * Thorough descriptions of tuning WebSphere with performance and robustness in mind * Teaches the reader how to develop custom IBM WebSphere performance monitoring and management tools & • Details the JMS API, covering the latest version 1.1, and discusses application development based on IBM WebSphere implementations & • Key coverage on WebSphere MQ, Websphere MQ Event Broker, JMS administration tasks, and common usage scenarios & • Examples coding JMS in servlets, portlets, EJBs and communicating with non-JMS applications From the early nineties, when IBM MQ Series first hit the market, during many years no one in the MQ universe really bothered too much about security. MQ seemed secure by being a simple peer to peer messaging protocol that is uncommon and unknown. As time went by, IBM packed more and more features into the product. More and more customers used MQ until it eventually became to a quasi-standard for reliable messaging. But only in the past few years awareness was raised that MQ security is vital since the product has evolved to a very powerful and dynamic platform for remote interaction. Yet, MQ's dynamic power is hidden under the hood. It is so easy to install a queue manager and not much more of a challenge to set up a simple MQ network. When we get to securing our MQ network however, we find the task to be surprisingly complex and multi-layered. Even though IBM's documentation of MQ overall may be classified above average at least – some important details regarding MQ security are incomplete or even misleading. For MQ, common security measures such as SSL are somewhat peculiar to implement and some properties of typical roles are interchanged. In our freshman days we learned that security always is as strong as its weakest link and hence a little inadvertence may render the whole network insecure. So regarding security it's vital to make a good job. IBM® CICS® Transaction Server (CICS TS) has been available in various guises for over 40 years, and continues to be one of the most widely used pieces of commercial software. This IBM Redbooks® publication helps application architects discover the value of CICS Transaction Server to their business. This book can help architects understand the value and capabilities of CICS Transaction Server and the CICS tools portfolio. The book also provides detailed guidance on the leading practices for designing and integrating CICS applications within an enterprise, and the patterns and techniques you can use to create CICS systems that provide the qualities of service that your business requires. With ever-increasing workloads on production systems from transaction, batch, online query and reporting applications, the challenges of high availability and workload balancing are more important than ever. This IBM® Redbooks® publication provides descriptions and scenarios for high availability solutions using the Q Replication technology of the IBM InfoSphere® Data Replication product on the IBM z/OS® platform. Also included are key considerations for designing, implementing, and managing solutions for the typical business scenarios that rely on Q Replication for their high availability solution. This publication also includes sections on latency analysis, managing Q Replication in the IBM DB2® for z/OS environment, and recovery procedures. These are topics of particular interest to

clients who implement the Q Replication solution on the z/OS platform. Q Replication is a high-volume, low-latency replication solution that uses IBM WebSphere® MQ message queues to replicate transactions between source and target databases or subsystems. A major business benefit of the low latency and high throughput solution is timely availability of the data where the data is needed. High availability solutions are implemented to minimize the impact of planned and unplanned disruptions of service to the applications. Disruption of service can be caused by software maintenance and upgrades or by software and hardware outages. As applications' high availability requirements evolve towards continuous availability, that is availability of the data 24 hours a day and 7 days a week, so does the Q Replication solution, to meet these challenges. If you are interested in the Q Replication solution and how it can be used to implement some of the high availability requirements of your business scenarios, this book is for you. The organization pursuing digital transformation must embrace new ways to use and deploy integration technologies, so they can move quickly in a manner appropriate to the goals of multicloud, decentralization, and microservices. The integration layer must transform to allow organizations to move boldly in building new customer experiences, rather than forcing models for architecture and development that pull away from maximizing the organization's productivity. Many organizations have started embracing agile application techniques, such as microservice architecture, and are now seeing the benefits of that shift. This approach complements and accelerates an enterprise's API strategy. Businesses should also seek to use this approach to modernize their existing integration and messaging infrastructure to achieve more effective ways to manage and operate their integration services in their private or public cloud. This IBM® Redbooks® publication explores the merits of what we refer to as agile integration; a container-based, decentralized, and microservice-aligned approach for integration solutions that meets the demands of agility, scalability, and resilience required by digital transformation. It also discusses how the IBM Cloud Pak for Integration marks a significant leap forward in integration technology by embracing both a cloud-native approach and container technology to achieve the goals of agile integration. The target audiences for this book are cloud integration architects, IT specialists, and application developers. This IBM® Red paper books® publication is divided into three parts: Part 1, "Introduction" on page1, provides an introduction to message-oriented middleware and the WebSphere® MQ product. We discuss the concept of messaging, explaining what is new in WebSphere MQ V7.0 and how it is implemented. An overview is provided on how it fits within the service-oriented architecture (SOA) framework. Part 2, "WebSphere MQ V7.0 enhancements and changes" on page 41, explains the new WebSphere MQ V7.0 features and enhancements in detail and includes compatibility and the migration considerations from the previous supported versions. Part 3, "Scenario" on page253, contains a scenario that demonstrates how the new features and enhancements work and how to use them. The sample programs and scripts used for this scenario are available for download by following the instructions in Appendix B, "Additional material" on page379. This IBM Redbooks publication describes and demonstrates common, prescriptive scenarios for setting up disaster recovery for common workloads using IBM WebSphere Application Server, IBM DB2, and WebSphere MQ between two IBM PureApplication System racks using the features in PureApplication System V2. The intended audience for this book is pattern developers and operations team members who are setting up production systems using software patterns from IBM that must be highly available or able to recover from a disaster (defined as the complete loss of a data center). This IBM® Redbooks® publication is based on the book Introduction to the New Mainframe: z/OS Basics, SG24-6366, which was produced by the International Technical Support Organization (ITSO), Poughkeepsie Center. It provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer. For optimal learning, students are assumed to have successfully completed an introductory course in computer system concepts, such as computer organization and architecture, operating systems, data management, or data communications. They should also have successfully completed courses in one or more programming languages, and be PC literate. This textbook can also be used as a prerequisite for courses in advanced topics, or for internships and special studies. It is not intended to be a complete text covering all aspects of mainframe operation. It is also not a reference book that discusses every feature and option of the mainframe facilities. Others who can benefit from this course include experienced data processing professionals who have worked with non-mainframe platforms, or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment. As we go through this course, we suggest that the instructor alternate between text, lecture, discussions, and hands-on exercises. Many of the exercises are cumulative, and are designed to show the student how to design and implement the topic presented. The instructor-led discussions and hands-on exercises are an integral part of the course, and can include topics not covered in this textbook. In this course, we use simplified examples and focus mainly on basic system functions. Hands-on exercises are provided throughout the course to help students explore the mainframe style of computing. At the end of this course, you will be familiar with the following information: Basic concepts of the mainframe, including its usage and architecture Fundamentals of IBM z/VSE® (VSE), an IBM zTM Systems entry mainframe operating system (OS) An understanding of mainframe workloads and the major middleware applications in use on mainframes today The basis for subsequent course work in more advanced, specialized areas of z/VSE, such as system administration or application programming This IBM Redbooks publication describes the fundamental concepts and benefits of message queuing technology. This book is an update of a very popular Redpaper (REDP-0021) based on IBM WebSphere MQ Versions 5.0 to 5.2. This publication provides a design-level overview and technical introduction for the established and reliable WebSphere MQ product. A broad technical understanding of the WebSphere MQ product can improve design and implementation decisions for WebSphere MQ infrastructures and applications. To reduce the time required to gain this understanding, this book summarizes relevant information from across the WebSphere MQ product documentation. We also include hands-on security and troubleshooting sections to aid understanding and provide a reference for common administrative actions performed when building and maintaining WebSphere MQ infrastructures. In the appendix, we provide a summary of the new features in WebSphere MQ Version 6.0. This IBM® Redbooks® publication discusses the value proposition of cross-channel solutions and describes the IBM Retail Integration Framework Commerce Product Strategy solution and service-oriented architecture (SOA) as an enabler. In depth, this book describes cross-channel processes and cross-channel features and proposes scenarios and configurations to meet the challenges in a competitive environment. This book describes the latest features and techniques of IBM WebSphere® Commerce Version 7. In it, we present an overview of the WebSphere Commerce order and inventory management systems, the distributed order management (referred to as DOM throughout this book) integration framework, and a sample DOM integration scenario. We discuss the Madisons starter store (Web 2.0 storefront) and present a hands-on experience that integrates MapQuest with the WebSphere Commerce V7 Store Locator feature. We discuss how a merchant can use the mobile

features that are included in WebSphere Commerce V7 to define e-Marketing Spots and promotion for mobile users. In addition, we demonstrate how to use Google Maps with the Store Locator feature on a mobile device. We include in this book an example about how to apply WebSphere Commerce features on a cross-channel solution as applied at the Easy Hogary Construcccion home improvement retail company in South America. The scenario explains how to scale from an SOA store to a cross-channel business model. This book is designed for use by WebSphere Commerce developers, practitioners, and solution architects in various industries. This IBM® Redbooks® publication describes the IBM MQ Appliance M2000, an application connectivity option that combines secure, reliable IBM MQ messaging with the simplicity and low overall costs of a hardware appliance. This book presents underlying concepts and practical advice for integrating the IBM MQ Appliance M2000 into an IBM MQ infrastructure. Therefore, it is aimed at enterprises that are considering a possible first use of IBM MQ and the IBM MQ Appliance M2000 and those that already identified the appliance as a logical addition to their messaging environment. Details about new functionality and changes in approaches to application messaging are also described. The authors' goal is to help readers make informed design and implementation decisions so that the users can successfully integrate the IBM MQ Appliance M2000 into their environments. A broad understanding of enterprise messaging is required to fully comprehend the details that are provided in this book. Readers are assumed to have at least some familiarity and experience with complimentary IBM messaging products. The differences between well-designed security and poorly designed security are not always readily apparent. Poorly designed systems give the appearance of being secure but can over-authorize users or allow access to non-users in subtle ways. The problem is that poorly designed security gives a false sense of confidence. In some ways, it is better to knowingly have no security than to have inadequate security believing it to be stronger than it actually is. But how do you tell the difference? Although it is not rocket science, designing and implementing strong security requires strong foundational skills, some examples to build on, and the capacity to devise new solutions in response to novel challenges. This IBM® Redbooks® publication addresses itself to the first two of these requirements. This book is intended primarily for security specialists and IBM WebSphere® MQ administrators that are responsible for securing WebSphere MQ networks but other stakeholders should find the information useful as well. Chapters 1 through 6 provide a foundational background for WebSphere MQ security. These chapters take a holistic approach positioning WebSphere MQ in the context of a larger system of security controls including those of adjacent platforms' technologies as well as human processes. This approach seeks to eliminate the simplistic model of security as an island, replacing it instead with the model of security as an interconnected and living system. The intended audience for these chapters includes all stakeholders in the messaging system from architects and designers to developers and operations. Chapters 7 and 8 provide technical background to assist in preparing and configuring the scenarios and chapters 9 through 14 are the scenarios themselves. These chapters provide fully realized example configurations. One of the requirements for any scenario to be included was that it must first be successfully implemented in the team's lab environment. In addition, the advice provided is the cumulative result of years of participation in the online community by the authors and reflect real-world practices adapted for the latest security features in WebSphere MQ V7.1 and WebSphere MQ V7.5. Although these chapters are written with WebSphere MQ administrators in mind, developers, project leaders, operations staff, and architects are all stakeholders who will find the configurations and topologies described here useful. The third requirement mentioned in the opening paragraph was the capacity to devise new solutions in response to novel challenges. The only constant in the security field is that the technology is always changing. Although this book provides some configurations in a checklist format, these should be considered a snapshot at a point in time. It will be up to you as the security designer and implementor to stay current with security news for the products you work with and integrate fixes, patches, or new solutions as the state of the art evolves. This is the first guide to transaction processing systems that is accessible to the broad audience that needs to know how transaction processing systems work. It includes a wide variety of real-world examples to illustrate key principles and explains all major open and vendor-specific transaction processing standards. This IBM® Redbooks® publication provides you with a path to demystify the complexity of adopting a service-oriented architecture (SOA) approach to integrating applications and services. With an iterative evolution of a fictitious company, which is called ITSO Enterprise, we demonstrate several scenarios about how we can implement an IBM Smart SOA approach that helps ITSO Enterprise to achieve its business goals to be a global interconnected enterprise, one step at a time. It is not our intention to dive into the extremely technical details of every product or to tell you specific solutions for specific problems, but rather, to advise you about how to look at these problems from a business context perspective and then to provide you with a concise deployment using the IBM WebSphere® Connectivity portfolio of products to easily address them. This book will be a reference for IT Specialists and IT Architects working on implementing Smart SOA solutions using the IBM WebSphere Connectivity portfolio of products at client sites, as well as for decision makers, IBM employees, IBM Business Partners, and IT Managers. This IBM® Redbooks® publication describes how IBM has enhanced its managed file transfer portfolio consisting of MQ File Transfer Edition with the Sterling Business Integration Suite. The Sterling Business Integration Suite consists of Sterling File Gateway and Sterling Connect:Direct. Sterling Commerce, an IBM company, transforms and optimizes your business collaboration network by improving business agility, efficiency, and performance. These managed file transfer components from Sterling Commerce, an IBM company, partnered with MQ File Transfer Edition deliver proven value by protecting privacy and integrity of data in transit with governance, eliminate operations cell center traffic regarding file transfer exceptions, show a faster time to revenue, and bring a six-sigma level performance to key business processes. The integration and combination of these products allows for organizations to switch between protocols internally, allowing for diversity across business needs while still positioning the organization to easily move files outside their secured intra-enterprise network through an edge server to the external trading partner regardless of what protocol the external trading partner is using. This book is intended for organizations that find themselves wanting to trade data in a secure, reliable, and auditable way across both intra-enterprise and multi-enterprise protocols. IBM WebSphere® Message Broker is a lightweight, advanced enterprise service bus (ESB) that provides a broad range of integration capabilities that enable companies to rapidly integrate internal applications and connect to partner applications. Messages from business applications can be transformed, augmented and routed to other business applications. The types and complexity of the integration required will vary by company, application types, and a number of other factors. Processing logic in WebSphere Message Broker is implemented using message flows. Through message flows, messages from business applications can be transformed, augmented, and routed to other business applications. Message flows are created by connecting nodes together. A wide selection of built-in nodes are provided with WebSphere Message Broker. These nodes perform tasks that are

associated with message routing, transformation, and enrichment. Message flows are created and tested using the Message Broker Toolkit, a sophisticated, easy-to-use programming tool that provides a full range of programming aids. This IBM® Redbooks® publication focuses on two specific integration requirements that apply to many midmarket companies. The first is the ability to use WebSphere Message Broker to integrate Microsoft.NET applications into a broader connectivity solution. WebSphere Message Broker V8 introduces the ability to integrate with existing Microsoft .NET Framework applications. A .NET assembly can be called from within a message flow and the WebSphere Message Broker runtime can host and run .NET code. Solutions explored in this book cover connectivity to applications using Windows Communications Framework (WCF), Microsoft Message Queuing, Microsoft Dynamics CRM, and other Microsoft applications. The second is the ability to integrate WebSphere Message Broker with file transfer networks, specifically with WebSphere MQ File Transfer Edition and IBM Sterling Connect Direct. Current IT developments like component-based development and Web services have emerged as effective ways of building complex enterprise-scale information systems and providing enterprise application integration. To aid this process, platforms such as .NET and WebSphere have become standards in web-based systems development. However, there are still a lot of issues that need to be addressed before service-oriented software engineering (SOSE) becomes a prominent and widely accepted paradigm for enterprise information systems development and integration. This book provides a comprehensive view of SOSE through a number of different perspectives. Some of those perspectives include: service-based concepts, modeling and documentation, service discovery and composition, service-oriented architecture, model-driven development of service-oriented applications, service security and service-orientation in mobile settings. The book provides readers with an in-depth knowledge of the main challenges and practices in the exciting, new world of service-oriented software engineering. Addressing both technical and organizational aspects of this new field, it offers a balance making it valuable to a variety of readers, including IT architects, developers, managers, and analysts. IBM® Geographically Dispersed Parallel Sysplex™ (GDPS®) is a collection of several offerings, each addressing a different set of IT resiliency goals. It can be tailored to meet the recovery point objective (RPO), which is how much data can you are willing to lose or recreate, and the recovery time objective (RTO), which identifies how long can you afford to be without your systems for your business from the initial outage to having your critical business processes available to users. Each offering uses a combination of server and storage hardware or software-based replication, and automation and clustering software technologies. This IBM Redbooks® publication presents an overview of the IBM GDPS active/active (GDPS/AA) offering and the role it plays in delivering a business IT resilience solution. This IBM® Redbooks® Solution Guide describes the IBM MQ Appliance M2000, an application connectivity option that combines secure, reliable IBM MQ messaging with the simplicity and low overall costs of a hardware appliance. The concept behind the IBM MQ Appliance M2000 is simple: Combine the customer-proven scalability and security of IBM MQ messaging software with the simplicity, ease-of-use, and low total costs of a hardware appliance. Enterprises have long used IBM MQ messaging to integrate applications, systems, and services reliably and securely. Now, with the IBM MQ Appliance M2000, IBM adds a state-of-the-art hardware option that is fast to deploy and uses fewer administrative and infrastructure resources than running multiple messaging servers. Messaging servers are only part of the cost of messaging integration. There also is the expense of configuring and maintaining the servers and software, and for many enterprises, the challenge of extending the infrastructure to multiple, far-flung geographic locations. Also, by its nature, messaging infrastructure must be highly available and responsive to enormous fluctuations in demand. Therefore, the industry needs a new approach to application connectivity, one that is fast and easy to deploy, simple to maintain, reliably secure, and cost-effective. With the IBM MQ Appliance M2000, IBM offers the messaging performance of IBM MQ with the convenience and costs savings of a robust physical component. This Solution Guide is intended for enterprises that are considering a possible first use of IBM MQ and the IBM MQ Appliance M2000 and those that already identified the appliance as a logical addition to their messaging environment. This IBM® Redbooks® publication is for anyone needing to increase WebSphere® messaging availability, especially people interested in the new capabilities of WebSphere MQ and WebSphere Message Broker. It discusses and demonstrates solutions to provide high availability for WebSphere Messaging solutions. For the distributed platforms, this ranges from the traditional PowerHATM for AIX® to the new WebSphere MQ multi-instance queue managers and WebSphere Message Broker multi-instance brokers. For the appliance users, we included solutions for WebSphere DataPower®. For enterprises that need continuous availability of WebSphere MQ messages, MQ Queue Sharing Groups and the CICS® Group Attach features are demonstrated. The book includes guidance on HA options, such as when you might need PowerHA (or a similar solution for your platform), when the multi-instance features work for your applications, and when duplexing the coupling facility structures might be appropriate. A complete guide to developing and managing robust distributed business applications with IBM's MQSeries Coauthored by a former IBM professional who was intimately connected with the development of IBM's MQSeries and a middleware expert who is building products based on MQSeries, this book/CD package provides you with all the expert guidance, tips, and software tools you need to get the most out of this incredibly versatile technology. Distributed Computing with IBM MQSeries is the first book to approach MQSeries implementation from a business/management perspective. Throughout, the emphasis is on using MQSeries messaging and queuing software to solve current and future business problems. Len Gilman and Richard Schreiber introduce you to MQSeries architecture, features, functions, and its future. Then, with the help of many real-life case studies demonstrating successful MQSeries implementation in a broad array of business sectors, from finance to manufacturing, they show you step by step how to: Identify when MQSeries is a good fit for your business. Get started with MQSeries and streamline the integration process. Develop robust distributed applications using MQSeries. Solve a wide range of business problems with the software. Manage an MQ-based system. Recognize and handle potential problems. Use reengineered IT processes to take full advantage of MQSeries. On the CD-ROM you'll find: A fully functional software developers' kit for MQSeries Link with Lotus Notes. Live video overview of MQSeries. MQSeries application simulations, documentation, and product specification sheets. Also includes tear-out card for FREE one-year subscription to MQ Magazine. Mainframe computers play a central role in the daily operations of many of the world's largest corporations. Batch processing is still a fundamental, mission-critical component of the workloads that run on the mainframe. A large portion of the workload on IBM® z/OS® systems is processed in batch mode. This IBM Redbooks® publication is the fourth volume in a series of four. They address new technologies introduced by IBM to facilitate the use of hybrid batch applications that combine the best aspects of Java and procedural programming languages such as COBOL. This volume focuses on the latest enhancements in IBM IMSTM batch support. IMS has been available to clients for 45 years as IMS Transaction Manager, IMS Database Manager, or both. The audience for this

book includes IT architects and application developers with a focus on batch processing on the z/OS platform. This IBM® Redbooks® publication pulls together diverse information regarding the best way to design, implement, and manage a Parallel Sysplex® to deliver the levels of performance and availability required by your organization. This book should be of interest to system programmers, availability managers, and database administrators who are interested in verifying that your systems conform to IBM best practices for a Parallel Sysplex environment. In addition to z/OS® and the sysplex hardware configuration, this book also covers the major IBM subsystems: CICS® DB2® IMSTM MQ WebSphere® Application Server To get the best value from this book, readers should have hands-on experience with Parallel Sysplex and have working knowledge of how your systems are set up and why they were set up in that manner. This IBM® Redbooks® publication provides you with a technical overview of IBM WebSphere® Enterprise Service Bus Registry Edition V7.5. Part 1 outlines the roles of a service registry and an enterprise service bus (ESB), and explains the benefits of combining these technologies. Part 2 focuses specifically on the ESB and registry that is offered by WebSphere Enterprise Service Bus Registry Edition. It also describes topology choices and installation. Part 3 presents a fictional business scenario that demonstrates how an organization can register services and build simple and advanced mediations using these services. IT specialists, IT architects, and those who are looking for a technical discussion of WebSphere Enterprise Service Bus Registry Edition will find value in this book. This IBM® Redbooks® publication takes you on a hybrid cloud journey with IBM PureApplication® System and PureApplication Service: from the what, over the why, and to the how. We outline the needs for a hybrid PureApplication cloud and we describe how to build a strategy. We provide advice about the components, including security. Through use cases, we define the need and the strategy for a hybrid cloud implementation with IBM PureApplication System, Software, or Service. The target audience for this book varies from anyone who is interested in learning more about a true hybrid cloud solution from IBM to strategists, IT architects, and IT specialists who want an overview of what is required to build a hybrid cloud with IBM PureApplication family members. MQ Telemetry Transport (MQTT) is a messaging protocol that is lightweight enough to be supported by the smallest devices, yet robust enough to ensure that important messages get to their destinations every time. With MQTT devices such as smart energy meters, cars, trains, satellite receivers, and personal health care devices can communicate with each other and with other systems or applications. This IBM® Redbooks® publication introduces MQTT and takes a scenario-based approach to demonstrate its capabilities. It provides a quick guide to getting started and then shows how to grow to an enterprise scale MQTT server using IBM WebSphere® MQ Telemetry. Scenarios demonstrate how to integrate MQTT with other IBM products, including WebSphere Message Broker. This book also provides typical usage patterns and guidance on scaling a solution. The intended audience for this book ranges from new users of MQTT and telemetry to those readers who are looking for in-depth knowledge and advanced topics. This IBM® Redpaper™ publication provides information about how to build, deploy, and use IBM MQ as a service. The information in this paper includes the key factors that must be considered while planning the use of IBM MQ as a service. Through descriptions and examples, this paper explains how to apply as a service methodologies to an IBM MQ environment, and describes techniques and preferred practices for integrating IBM MQ into a self-service portal. This paper explains how to create and use an IBM MQ as a service self-service menu for a portal. It includes examples that show how to use an IBM MQ as a service catalog. This paper describes options and techniques for deploying IBM MQ as a service that is tailored to the specific enterprise messaging needs of an organization. Although these techniques can be employed in a cloud environment, they are equally applicable in an on-premises enterprise data center. This paper includes information about the various infrastructure options that can be selected when implementing IBM MQ as a service. The information in this paper helps infrastructure administrators to define services so that you can provision IBM MQ resources quickly. The target audiences of this paper are developers, infrastructure administrators, and line-of-business (LOB) professionals who want to provision IBM MQ resources to be accessed as services in small, medium, large, and complex implementations. The power of IBM® MQ is its flexibility combined with reliability, scalability, and security. This flexibility provides a large number of design and implementation choices. Making informed decisions from this range of choices can simplify the development of applications and the administration of an MQ messaging infrastructure. Applications that access such an infrastructure can be developed using a wide range of programming paradigms and languages. These applications can run within a substantial array of software and hardware environments. Customers can use IBM MQ to integrate and extend the capabilities of existing and varied infrastructures in the information technology (IT) system of a business. IBM MQ V8.0 was released in June 2014. Before that release, the product name was IBM WebSphere® MQ. This IBM Redbooks® publication covers the core enhancements made in IBM MQ V8 and the concepts that must be understood. A broad understanding of the product features is key to making informed design and implementation choices for both the infrastructure and the applications that access it. Details of new areas of function for IBM MQ are introduced throughout this book, such as the changes to security, publish/subscribe clusters, and IBM System z exploitation. This book is for individuals and organizations who make informed decisions about design and applications before implementing an IBM MQ infrastructure or begin development of an IBM MQ application. 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. Throughout the history of the IT industry, integration has been an important part of most projects. Whether it is integration of transactions, data, or processes, each has challenges and associated patterns and antipatterns. In an age of mobile devices, social networks, and cloud services, and big data analytics, integration is more important than ever, but the scope of the challenge for IT projects has changed. Partner APIs, social networks, physical sensors and devices, all of these and more are important sources of capability or insight. It is no longer sufficient to integrate resources under control of the enterprise, because many important resources are in the ecosystem beyond enterprise boundaries. With this as the basic tenet, we address these questions: What are the current integration patterns that help enterprises become and remain competitive? How do you choose when to use which pattern? What is the topology for a "composable business"? And how do you accelerate the process of implementation through intelligent choice of supporting integration middleware? This IBM® Redbooks® publication guides integration practitioners and architects in choosing integration patterns and technologies. This IBM® Redbooks® publication provides both introductory information and technical details for ISV IBM Z® Program Development Tool (IBM zPDT®), which produces a small IBM zSystems environment that is suitable for application development. ISV zPDT is a personal computer (PC) Linux application. When ISV zPDT is installed on Linux, normal IBM zSystems operating systems (such as IBM z/OS®) may be run on it. ISV zPDT provides the basic IBM zSystems architecture and provides emulated IBM 3390 disk drives, 3270 interfaces, Open Systems Adapter (OSA)

interfaces, and other items. The systems that are described in this publication are complex, with elements of Linux (for the underlying PC machine), IBM z/Architecture® (for the core zPDT elements), IBM zSystems I/O functions (for emulated I/O devices), z/OS (the most common IBM zSystems operating system), and various applications and subsystems under z/OS. We assume that the reader is familiar with general concepts and terminology of IBM zSystems hardware and software elements, and with basic PC Linux characteristics. This publication provides the primary documentation for ISV zPDT and corresponds to zPDT V1 R11, commonly known as GA11. Across numerous vertical industries, enterprises are challenged to improve processing efficiency as transactions flow from their business communities to their internal systems and vice versa, simplify management and expansion of the external communities, accommodate customer and supplier preferences, govern the flow of information, enforce policy and standards, and protect sensitive information. Throughout this process, external partners must be on-boarded and off-boarded, information must flow across multiple communications infrastructures, and data must be mapped and transformed for consumption across multiple applications. Some transactions require synchronous or real-time processing while others are of a more periodic nature. For some classes of customer or supplier, the enterprise might prefer a locally-managed, on-premise solution. For some types of communities (often small businesses), an as-a-Service solution might be the best option. Many large enterprises combine the on-premise and as-a-Service approach to serve different categories of business partners (customers or suppliers). This IBM® Redbooks® publication focuses on solutions for end-to-end integration in complex value chains and presents several end-to-end common integration scenarios with IBM Sterling and IBM WebSphere® portfolios. We believe that this publication will be a reference for IT Specialists and IT Architects implementing an integration solution architecture involving IBM Sterling and IBM WebSphere portfolios. This IBM® Redbooks® publication points out the key features that make WebSphere® Message Broker a powerful choice as an enterprise service bus (ESB) solution in a service-oriented architecture (SOA) environment. In this book, we illustrate the interoperability between the WebSphere Message Broker and the applications in the SOA environment. We use realistic examples to show the ESB capabilities of WebSphere Message Broker. We also show how to integrate WebSphere Message Broker with a variety of enterprise applications, which include WebSphere Process Server and ESB systems including SAP and Siebel, WebSphere Business Monitor, and WebSphere Service Registry and Repository. We wrote this book for architects who are planning an SOA solution and application designers who are implementing an SOA solution with WebSphere Process Server and WebSphere Message Broker. This IBM® Redbooks® publication is intended to make System Programmers, Operators, and Availability Managers aware of the enhancements to recent releases of IBM z/OS® and its major subsystems in the area of planned outage avoidance. It is a follow-on to, rather than a replacement for, z/OS Planned Outage Avoidance Checklist, SG24-7328. Its primary objective is to bring together in one place information that is already available, but widely dispersed. It also presents a different perspective on planned outage avoidance. Most businesses care about application availability rather than the availability of a specific system. Also, a planned outage is not necessarily a bad thing, if it does not affect application availability. In fact, running for too long without an IPL or subsystem restart might have a negative impact on application availability because it impacts your ability to apply preventive service. Therefore, this book places more focus on decoupling the ability to make changes and updates to your system from IPLing or restarting your systems. The role of data management becomes more and more crucial in a totally connected world. Having the right data at the right time at the right place is therefore one of the most challenging research issues we face in the coming years. This Festschrift volume is devoted to Hartmut Wedekind on the occasion of his 70th birthday and comprises a total of 18 articles discussing a broad spectrum of issues related to data management. All articles are (co-)authored by academic children and grandchildren of Hartmut Wedekind and therefore reflect the multifaceted selection of academic topics that he explored, discussed, and published on during his academic life. All articles are clustered into four different parts, focusing on motivation and modeling issues, infrastructural services, application design, and finally different applications. The scope of the articles reaches from visionary illustrations of data management in a connected world through core database techniques in the context of database caching, notification services, etc., to the design and description of data-intensive applications.

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