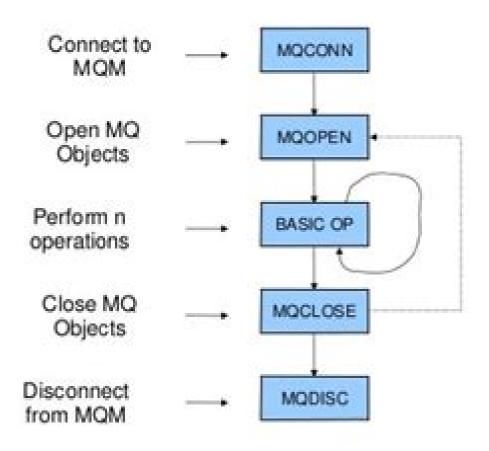
# MQ Programming Sequence



# **Mqseries Version 5 Programming Examples**

Darrell Bleakley, Jenny Chow, Kirstine Clapperton, Sowmya Hebbur Dayananda, Vivek Grover, Sunho Sung, IBM Redbooks

# **Mqseries Version 5 Programming Examples:**

**MQSeries Version 5 Programming Examples** ,1998 IBM WebSphere MQ V7.1 and V7.5 Features and Enhancements Cezar Aranha, Craig Both, Barry Dearfield, Carolyn (Lyn) Elkins, Alexander Ross, Jamie Squibb, Mark Taylor, IBM Redbooks, 2013-02-28 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 WebSphere MQ V7.0 Features and Enhancements Saida Davies, Glenn Baddeley, Martin Cernicky, Brian Cuttell, Ruchir P Jha, Bulent Sapolyo, Akhila Shivaprasad, Vicente Suarez, Lohitashwa Thyagaraj, IBM Redbooks, 2009-01-26 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 page 253 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 page 379 Advanced Lectures on Networking Enrico Gregori, Giuseppe Anastasi, Stefano Basagni, 2003-08-02 This book presents the revised version of seven tutorials given at the NETWORKING 2002 Conference in Pisa Italy in May 2002 The lecturers present a coherent view of the core issues in the following areas peer to peer computing and communications mobile computing middleware network security in the multicast framework categorizing computing assets according to communication patterns remarks on ad hoc networking communication through virtual technologies IBM MQ V8 Features and Enhancements Rufus Credle, Carolyn Elkins, Peter Hayward, Valerie Lampkin, Matthew Leming, Jonatan Maya Sanchez, Mark Taylor, Mark Wilson, IBM Redbooks, 2014-10-02 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 Value of Active-Active Sites with Q Replication for IBM DB2 for z/OS An Innovative IBM Client's Experience Serge Bourbonnais, Jiong Fan, Michael Fitzpatrick, Wei He, Xiang Wei Zhou, IBM Redbooks, 2015-01-23 Any business interruption is a potential loss of revenue Achieving business continuity involves a tradeoff between the cost of an outage or data loss with the investment required for achieving the recovery point objective RPO and recovery time objective RTO Continuous system availability requires scalability as well as failover capability for maintenance outages and disasters It also requires a shift from standby to active active systems Active active sites are geographically distant transaction processing centers each with the infrastructure to run business operations and with data synchronized by using database replication such as the Q Replication technology that is part of IBM InfoSphere Data Replication software This IBM Redbooks publication describes preferred practices and introduces an architecture for continuous availability and disaster recovery that is used by a very

large business institution that runs its core business on IBM DB2 for z OS databases This paper explains the technologies and procedures that are required for the implementation of an active active sites architecture It also explains an innovative procedure for major IT upgrades that uses Q Replication for DB2 on z OS Multi site Workload Lifeline and Peer to Peer Remote Copy Extended Distance PPRC XD This paper is of value to decision makers such as executive and IT architects and to database administrators who are responsible for design and implementation of the solution Advanced Networking Concepts Applied Using Linux on IBM System z Lydia Parziale, Ben Louie, Eric Marins, Tiago Nunes dos Santos, Srivatsan Venkatesan, IBM Redbooks, 2012-03-06 This IBM Redbooks publication describes important networking concepts and industry standards that are used to support high availability on IBM System z Some of the networking standards described here are VLANs VLAN trunking link aggregation virtual switches VNICs and load balancing We examine the various aspects of network setups and introduce the main Linux on System z networking commands and configuration files We describe the management of network interface parameters assignment of addresses to a network interface and usage of the ifconfig command to configure network interfaces We provide an overview of connectivity options available on the System z platform We also describe high availability concepts and building a high availability solution using IBM Tivoli System Automation We also provide the implementation steps necessary to build a redundant network connections set up between an IBM z VM system and the external network switches using two Open Systems Adapter Express 3 OSA Express 3 adapters with 10 Gb Ethernet ports We describe the tests performed in our lab environment The objectives of these tests were to gather information about performance and failover from the perspective of a real scenario where the concepts of described in this book were applied This book is focused on information that is practical and useful for readers with experience in network analysis and engineering networks System z and Linux systems administrators especially for readers that administer networks in their day to day activities For additional reading A Technote is available that explains changes to using channel bonding interfaces introduced with SLES 11 SP 2 It can be found at http www redbooks ibm com abstracts tips1000 html Open Using WebSphere Message Broker V8 in Mid-Market Environments Carla Sadtler, Vinicius D. G. Braganca, Minsung Byun, David Crighton, Kiran Darbha, Jefferson Lowrey, Pavel Malyutin, Abhinav Priyadarshi, Rashmi Katagall, IBM Redbooks, 2012-08-31 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 Algorithms for Next-Generation Sequencing Wing-Kin Sung, 2017-05-18 Advances in sequencing technology have allowed scientists to study the human genome in greater depth and on a larger scale than ever before as many as hundreds of millions of short reads in the course of a few days But what are the best ways to deal with this flood of data Algorithms for Next Generation Sequencing is an invaluable tool for students and researchers in bioinformatics and computational biology biologists seeking to process and manage the data generated by next generation sequencing and as a textbook or a self study resource In addition to offering an in depth description of the algorithms for processing sequencing data it also presents useful case studies describing the applications of this technology Building Smarter Planet Solutions with MQTT and IBM WebSphere MO Telemetry Valerie Lampkin, Weng Tat Leong, Leonardo Olivera, Sweta Rawat, Nagesh Subrahmanyam, Rong Xiang, Gerald Kallas, Neeraj Krishna, Stefan Fassmann, Martin Keen, Dave Locke, IBM Redbooks, 2012-09-07 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

**IBM MQ as a Service: A Practical Approach** Lohitashwa Thyagaraj,Cezar Eduardo Aranha,Kiran Darbha,Dirk Marski,Rob Nicholson,Jamie Squibb,David Ware,IBM Redbooks,2016-02-16 This IBM RedpaperTM 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 guickly 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 Next Generation of Distributed IBM CICS Raghavendran Srinivasan, Janaki Sundar, Prashanth Bhat, Nageswararao V Gokavarapu, Ashwini Deshpande, IBM Redbooks, 2015-06-03 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 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 Secure and Reliable Communication Modeling Mustapha Lahyane, Edgar Martínez-Moro, 2015-06-23 This volume contains the proceedings of the CIMPA Research School and Conference on Algebra for Secure and Reliable Communication Modeling held from October 1 13 2012 in Morelia State of Michoac n Mexico The papers cover several aspects of the theory of coding theory and are gathered into three categories general theory of linear codes algebraic geometry and coding theory and constacyclic codes over rings The aim of this volume is to fill the gap between the theoretical part of algebraic geometry and the applications to problem solving and computational modeling in engineering signal processing and information theory This

book is published in cooperation with Real Sociedad Matem tica Espa ola RSME Code of Federal Regulations ,1997 **Secure Messaging Scenarios with WebSphere MQ** T.Rob Wyatt, Glenn Baddeley, Neil Casey, Long Nguyen, Jørgen H. Pedersen, Morten Sætra, IBM Redbooks, 2013-04-02 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 z/TPF Application Modernization using Standard and Open Middleware Lisa Dianne Banks, Mark Cooper, Chris Coughlin, Jamie Farmer, Chris Filachek, Mark Gambino, Bradd Kadlecik, Colette A. Manoni, David McCreedy, Carolyn Weiss, Josh

Wisniewski, IBM Redbooks, 2013-06-28 In a world where product lifespans are often measured in months the IBM Transaction

Processing Facility has remained relevant for more than four decades by continuing to process high volumes of transactions quickly and reliably As the title of this book suggests the z TPF system uses open standard interfaces to create services Integration of new applications with existing z TPF functions is a key factor in extending application capabilities. The ability for service data objects SDO to access the z TPF Database Facility z TPFDF provides a framework for data application program development that includes an architecture and application programming interfaces APIs SDO access to z TPFDF provides remote client applications with access to z TPF traditional data In the simplest terms service oriented architecture SOA is a means by which like or unlike systems can communicate with one another despite differences between each system s heritage SOA can neutralize the differences between systems so that they understand one another SOA support for z TPF is a means by which z TPF can interact with other systems that also support SOA This book discusses various aspects of SOA in the z TPF system including explanations and examples to help z TPF users implement SOA IBM WebSphere Application Server was chosen as the partner system as a means of demonstrating how a world class transaction server and a world class application server can work together This book shows you how you can exploit z TPF as a transaction server participating in a SOA structure alongside WebSphere Application Server This IBM Redbooks publication provides an introduction to z TPF and the technologies critical to SOA z TPF is positioned as a provider or consumer in an SOA by supporting SOAP processing communication bindings and Extensible Markup Language XML An example is used to show how z TPF can be used both as a Web service provider and as a consumer A second example shows how to use WebSphere Operational Decision Management to apply business rules A third example shows how business event processing can be incorporated in z TPF applications An example is also used to discuss security aspects including z TPF XML encryption and the z TPF WS Security wrapper The main part of the book concludes with a discussion of z TPF in an open systems environment including examples of lightweight implementations to fit z TPF such as the HTTP server for the z TPF system The appendixes include information and examples using TPF Toolkit sample code and workarounds with yes more examples **Connecting Your Business Using IBM** WebSphere Message Broker V7 as an ESB Darrell Bleakley, Jenny Chow, Kirstine Clapperton, Sowmya Hebbur Dayananda, Vivek Grover, Sunho Sung, IBM Redbooks, 2010-05-22 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 ABCs of z/OS

**System Programming Volume 8** Paul Rogers, Peter Hilger, IBM Redbooks, 2012-07-26 The ABCs of IBM z OS System Programming is a 13 volume collection that provides an introduction to the z OS operating system and the hardware architecture Whether you are a beginner or an experienced system programmer the ABCs collection provides the information you need to start your research into z OS and related subjects If you would like to become more familiar with z OS in your current environment or if you are evaluating platforms to consolidate your e business applications the ABCs collection serves as a powerful technical tool This IBM Redbooks publication Volume 8 shows you how to Adopt a systematic and thorough approach to dealing with problems and identifying the different types of problems Determine where to look for diagnostic information and how to obtain it Interpret and analyze the diagnostic data collected Escalate problems to the IBM Support Center when necessary Collect and analyze diagnostic data a dynamic and complex process Identify and document problems collect and analyze pertinent diagnostic data and obtain help as needed to speed you on your way to problem resolution The content of the volumes is as follows Volume 1 Introduction to z OS and storage concepts TSO E ISPF ICL SDSF and z OS delivery and installation Volume 2 z OS implementation and daily maintenance defining subsystems JES2 and JES3 LPA LNKLST authorized libraries SMP E Language Environment Volume 3 Introduction to DFSMS data set basics storage management hardware and software catalogs and DFSMStvs Volume 4 Communication Server TCP IP and VTAM Volume 5 Base and Parallel Sysplex System Logger Resource Recovery Services RRS global resource serialization GRS z OS system operations automatic restart management ARM Geographically Dispersed Parallel SysplexTM GDPS Volume 6 Introduction to security RACF Digital certificates and PKI Kerberos cryptography and z990 integrated cryptography zSeries firewall technologies LDAP and Enterprise identity mapping EIM Volume 7 Printing in a z OS environment Infoprint Server and Infoprint Central Volume 8 An introduction to z OS problem diagnosis Volume 9 z OS UNIX System Services Volume 10 Introduction to z ArchitectureTM zSeries processor design zSeries connectivity LPAR concepts HCD and HMC Volume 11 Capacity planning performance management WLM RMFTM and SMF Two-Dimensional Information Theory and Coding Jørn Justesen, Søren Forchhammer, 2010 A complete introduction to the subject providing the key techniques for modeling two dimensional data and estimating their information content InfoWorld ,1998-11-16 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

# Mqseries Version 5 Programming Examples Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mqseries Version 5 Programming Examples**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **M**qseries Version 5 Programming Examples Introduction

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