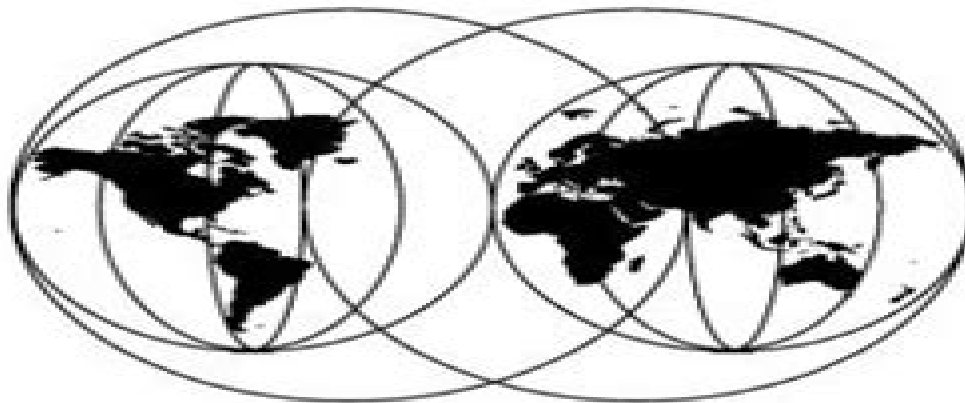




# **MQSeries Security: Example of Using a Channel Security Exit, Encryption and Decryption**

*Dieter Wackerow, David Skogren  
Manfred Lotz*



**International Technical Support Organization**

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# Mqseries Security

**T.Rob Wyatt, Glenn Baddeley, Neil  
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## **Mqseries Security:**

**Security on IBM z/VSE** Helmut Hellner, Ingo Franzki, Antoinette Kaschner, Joerg Schmidbauer, Heiko Schnell, Klaus-Dieter Wacker, IBM Redbooks, 2018-06-14 One of a firm's most valuable resources is its data client lists accounting data employee information and so on This critical data must be securely managed and controlled and simultaneously made available to those users authorized to see it The IBM z VSE system features extensive capabilities to simultaneously share the firm's data among multiple users and protect them Threats to this data come from various sources Insider threats and malicious hackers are not only difficult to detect and prevent they might be using resources with the business being unaware This IBM Redbooks publication was written to assist z VSE support and security personnel in providing the enterprise with a safe secure and manageable environment This book provides an overview of the security that is provided by z VSE and the processes for the implementation and configuration of z VSE security components Basic Security Manager BSM IBM CICS security TCP IP security single sign on using LDAP and connector security *The Complete Book of Middleware* Judith M. Myerson, 2002-03-05 The challenges of designing building and maintaining large scale distributed enterprise systems are truly daunting Written for all IT professionals The Complete Book of Middleware will aid in resolving new business objectives new technologies and vendor disputes This book focuses on the essential principles and priorities of system design and emphasizes the new requirements brought forward by the rise of e commerce and distributed integrated systems This reference highlights the changes to middleware technologies and standards It offers a concise overview of middleware technology alternatives and distributed systems Many increasingly complex examples are incorporated throughout and the book concludes with guidelines on the practice of IT architecture Performance considerations such as caching and monitoring are reviewed and the appendix includes middleware resources and new modeling standards The scope includes traditional middleware and also next generation techniques that serve to glue disparate systems in the ever expanding world of distributed network systems Provided with concepts principles and alternatives discussed in The Complete Book of Middleware systems architects systems analysts systems designers systems developers and programmers can proceed with greater confidence in designing complex enterprise systems *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 *Reduce Risk and Improve Security on IBM*

*Mainframes: Volume 3 Mainframe Subsystem and Application Security* Axel Buecker, Marcela Kanke, Mohit Mohanan, Vinicius Oliveira, Vinodkumar Ramalingam, David Rowley, Botrous Thalouth, Jan Thielmann, IBM Redbooks, 2015-11-02 This IBM Redbooks publication documents the strength and value of the IBM security strategy with IBM zTM Systems hardware and software In an age of increasing security consciousness and more and more dangerous advanced persistent threats IBM z SystemsTM provides the capabilities to address the needs of today s business security challenges This publication explores how z Systems hardware is designed to provide integrity process isolation and cryptographic capability to help address security requirements We highlight the features of IBM z OS and other operating systems which offer a variety of customizable security elements We discuss z OS and other operating systems and additional software that use the building blocks of z Systems hardware to provide solutions to business security needs We also explore the perspective from the view of an enterprise security architect and how a modern mainframe has to fit into an overarching enterprise security architecture This book is part of a three volume series that focuses on guiding principles for optimized mainframe security

configuration within a holistic enterprise security architecture The series intended audience includes enterprise security architects planners and managers who are interested in exploring how the security design and features of z Systems the z OS operating system and associated software address current issues such as data encryption authentication authorization network security auditing ease of security administration and monitoring

*Security Guide for IBM i V6.1* Jim Cook, Juan Carlos Cantalupo, MinHoon Lee, IBM Redbooks, 2009-05-29 The IBM i operation system formerly IBM i5 OS is considered one of the most secure systems in the industry From the beginning security was designed as an integral part of the system The System i platform provides a rich set of security features and services that pertain to the goals of authentication authorization integrity confidentiality and auditing However if an IBM Client does not know that a service such as a virtual private network VPN or hardware cryptographic support exists on the system it will not use it In addition there are more and more security auditors and consultants who are in charge of implementing corporate security policies in an organization In many cases they are not familiar with the IBM i operating system but must understand the security services that are available This IBM Redbooks publication guides you through the broad range of native security features that are available within IBM i Version and release level 6 1 This book is intended for security auditors and consultants IBM System Specialists Business Partners and clients to help you answer first level questions concerning the security features that are available under IBM The focus in this publication is the integration of IBM 6 1 enhancements into the range of security facilities available within IBM i up through Version release level 6 1 IBM i 6 1 security enhancements include Extended IBM i password rules and closer affinity between normal user IBM i operating system user profiles and IBM service tools user profiles Encrypted disk data within a user Auxiliary Storage Pool ASP Tape data save and restore encryption under control of the Backup Recovery and Media Services for i5 OS BRMS product 5761 BR1 Networking security enhancements including additional control of Secure Sockets Layer SSL encryption rules and greatly expanded IP intrusion detection protection and actions DB2 for i5 OS built in column encryption expanded to include support of the Advanced Encryption Standard AES encryption algorithm to the already available Rivest Cipher 2 RC2 and Triple DES Data Encryption Standard TDES encryption algorithms The IBM i V5R4 level IBM Redbooks publication IBM System i Security Guide for IBM i5 OS Version 5 Release 4 SG24 6668 remains available

**Enterprise Security Architecture Using IBM Tivoli Security Solutions** Axel Buecker, Ana Veronica Carreno, Norman Field, Christopher Hockings, Daniel Kawer, Sujit Mohanty, Guilherme Monteiro, IBM Redbooks, 2007-08-07 This IBM Redbooks publication reviews the overall Tivoli Enterprise Security Architecture It focuses on the integration of audit and compliance access control identity management and federation throughout extensive e business enterprise implementations The available security product diversity in the marketplace challenges everyone in charge of designing single secure solutions or an overall enterprise security architecture With Access Manager Identity Manager Federated Identity Manager Security Compliance Manager Security Operations Manager Directory Server and Directory

Integrator Tivoli offers a complete set of products designed to address these challenges This book describes the major logical and physical components of each of the Tivoli products It also depicts several e business scenarios with different security challenges and requirements By matching the desired Tivoli security product criteria this publication describes the appropriate security implementations that meet the targeted requirements This book is a valuable resource for security officers administrators and architects who want to understand and implement enterprise security following architectural guidelines

**Building Smarter Planet Solutions with MQTT and IBM WebSphere MQ 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 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 *Integrating*

*the IBM MQ Appliance into your IBM MQ Infrastructure* Neil Casey, Andy Emmett, Rufus Russell, IBM Redbooks, 2015-11-09

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

*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 Cuttall, 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 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 **Set Up Security and Integration with the DataPower XI50z for zEnterprise** Rufus Credle, Libor Cada, Karan Punwani, Noriyuki Samejima, Pradeep Thomas, Corrado Troncone, IBM Redbooks, 2011-12-20 This IBM Redbooks publication discusses the new IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise™ that bridges the gap between mainframe and distributed The DataPower XI50z a multifunctional appliance within the zEnterprise BladeCenter Extension zBX is managed with a single point of control which can help to streamline operations and maintenance The DataPower XI50z simplifies the translation of your existing formats to XML hardware acceleration for easier communication and connectivity This book will help you install tailor and configure the new attributes for implementing a zEnterprise ensemble network The zEnterprise System introduces internal virtual networks VLANs and additional networking attributes that need to be addressed Also we describe the planning considerations for the internal virtual networks and external networks This book is for anyone who wants an understanding of the security on the zEnterprise that focuses on the usage of the XI50z Network Security Services As you can expect from an IBM Redbooks publication we provide several integration use cases that you are able to use immediately within a production environment for example the XI50z connecting with and using WebSphere MQ WMQ connecting with CICS connecting with IMSTM and connecting with DB2 Smart SOA Connectivity Patterns: Unleash the Power of IBM WebSphere Connectivity Portfolio Virendar Solanki, Joao Emilio Santos Bento da Silva, Shishir Narain, Matt McLarty, Rajan Kumar, Rahul Gupta, Vineet Gupta, Vasfi Gucer, Lingachary Eswarachary, Ulas Cubuk, Peter Broadhurst, IBM Redbooks, 2011-09-15 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.

Provable Security Joonsang Baek, Willy Susilo, Jongkil Kim, 2018-10-10 This book constitutes the refereed proceedings of the 12th International Conference on Provable Security ProvSec 2018 held in Jeju South Korea in October 2018. The 21 full and 4 short papers presented were carefully reviewed and selected from 48 submissions. The papers are grouped in topical sections on foundation Public key encryption digital signature symmetric key cryptography and applications.

*Provable Security* Tatsuaki Okamoto, Yong Yu, Man Ho Au, Yannan Li, 2017-10-17 This book constitutes the refereed proceedings of the 11th International Conference on Provable Security ProvSec 2017 held in Xi'an China in October 2017. The 24 full papers and 5 short papers presented were carefully reviewed and selected from 76 submissions. The papers are grouped in topical sections on secure cloud storage and computing digital signature and authentication authenticated encryption and key exchange security models lattice and post quantum cryptography public key encryption and signcryption proxy re encryption and functional encryption protocols.

*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 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.

**Computerworld**, 1997-06-23 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award winning Web site Computerworld.com twice monthly

publication focused conference series and custom research form the hub of the world's largest global IT media network

*WebSphere MQ V6 Fundamentals* Saida Davies, Peter Broadhurst, IBM Redbooks, 2005-12-15 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.

*Soft Computing for Security Applications* G. Ranganathan, Youssouf EL Alloui, Selwyn Piramuthu, 2023-07-19 This book features selected papers from the International Conference on Soft Computing for Security Applications ICSCS 2023 held at Dhirajlal Gandhi College of Technology Tamil Nadu, India, during April 21-22, 2023. It covers recent advances in the field of soft computing techniques such as fuzzy logic, neural network, support vector machines, evolutionary computation, machine learning, and probabilistic reasoning to solve various real-time challenges. The book presents innovative work by leading academics, researchers, and experts from industry.

*Distributed Computing with IBM® MQSeries* Leonard Gilman, Richard Schreiber, 1996-11-08 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

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